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Division Waste Management

Section Superfund

Program IHS (IHS)

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## North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

February 26, 2007

<SAL> <FIRST> <LAST>, County Manager  
County of <MUNICIPALITY>  
<ADDRESS>  
<TOWN>, North Carolina <ZIP>

Subject: Assessment, Cleanup, and Redevelopment of Old Landfill Sites Within Your Jurisdiction

Dear <SAL> <LAST>:

Governor Easley released his proposed budget February 22, 2007. Included in the budget is a specific item I believe should be of interest to you from a fiscal, environmental and public health protection perspective.

There are approximately 700 old landfills statewide and <LANDFILL#> old landfills in your local area that closed before the State permitting system became effective. These landfills are listed on the Old Landfill Sites portion of the Inactive Hazardous Sites Inventory maintained by the Superfund Section, Division of Waste Management. Any person, including local governments, that arranged for disposal or disposed of waste in the landfills may be held liable for the cleanup of the site. I have attached a report that identifies the location of known old landfill sites in <COUNTY NAME> County that may have closed prior to 1983 and thus qualify for the program described in this letter.

The Division has surveyed old landfills in 47 counties. The results of the survey indicate reason for concern about potential public health and safety impacts of these sites if they are not addressed. Seventy percent of the sites surveyed had a school, church, residence, day care or drinking water source within 1000 feet. The Division has found 102 old landfills that have a drinking water well within 500 feet. Thirteen of the landfills surveyed have residences built over the old landfill. The cost of assessment and cleanup of these old landfill sites can be as high as several million dollars.

Governor Easley's budget establishes a partnership between the State and local governments to both clean up the old landfill sites and provide funding for redevelopment of the sites. Many are in prime locations for redevelopment opportunities. The Governor's budget proposes to pay for cleanup and redevelopment of these sites through a surcharge on disposal of solid waste. The funding mechanism is a fair one. It is based on the idea that those who use solid waste disposal facilities should share responsibility for cleanup of sites used for solid waste disposal in the past that may have been lawful at the time, but did not meet standards that we now know are necessary to protect public health and safety.

The proposed \$2.00 per ton disposal surcharge would apply to residential, commercial, industrial, and construction and demolition debris type waste that is either disposed at a landfill or passes through a transfer station for disposal out-of-state. The State would use revenue from the surcharge to contract for cleanup of the old landfill sites and to provide grants to local government for redevelopment. The funds could also be used across the state to clean up other hazardous substance disposal sites that have no viable responsible party.

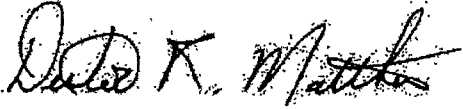
The only tool currently available to the State to ensure cleanup when it is needed is an enforcement action against those who owned, operated, or contributed to old landfills. The Governor's proposal would avoid placing an unreasonable

burden on any one local government and allow us to use our resources for actual cleanup rather than legal action. When old landfill sites were in use, North Carolina citizens, businesses, and industries benefited from their existence as a place to dispose of waste. The surcharge on waste disposal is a way for citizens, businesses, and industries to form a partnership for cleanup and redevelopment of these old landfill sites.

There is great interest this session of the General Assembly in strengthening requirements for landfills permitted in North Carolina. I encourage you to take a close look at legislation that will be introduced, specifically this initiative and what it can bring to your jurisdiction.

If you have questions regarding the program for clean-up of old landfills, please contact Jack Butler, Chief of the Superfund Section, at [jack.butler@ncmail.net](mailto:jack.butler@ncmail.net) or call (919)508-8450.

Sincerely,

A handwritten signature in dark ink, appearing to read "Dexter R. Matthews". The signature is fluid and cursive, with the first name "Dexter" and last name "Matthews" clearly distinguishable.

Dexter R. Matthews, Director

cc: David Thompson, NCACC  
Jack Butler, Chief – Superfund Section



## North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

February 27, 2007

<SAL> <FIRST> <LAST>  
<TITLE>, <MUNICIPALITY>  
<ADDRESS>  
<TOWN>, North Carolina <ZIP>

Subject: Assessment, Cleanup, and Redevelopment of Old Landfill Sites Within Your Jurisdiction

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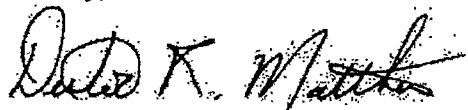
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Sincerely,

A handwritten signature in dark ink, appearing to read "Dexter R. Matthews". The signature is fluid and cursive, with the first name "Dexter" being more prominent.

Dexter R. Matthews, Director

cc: Ellis Hankins, NCLM  
Jack Butler, Chief – Superfund Section

The mailing list for these letters is filed in a folder in the first file cabinet drawer for the old landfill sites.

A statewide Old Landfill Inventory report is filed in a folder in the first file cabinet drawer for the old landfill sites.

- Dare  
JWC  
but

August 16, 1979

Mr. Les Picker  
Marine Resources Center  
Post Office Box 967 95  
Manteo, North Carolina 27594

Dear Mr. Picker:

On August 14, 1979, Mr. Billy Morris and I visited the Dare County Rubble Site #2. This was to determine if the waste from the oil cleanup had been disposed according to the Solid Waste Management Rules.

Four test holes were made and final cover was measured. The clay cover seems to be adequate as there was an eight to nine inch average depth in the holes. However, the overall cover was little more than one foot through not meeting the requirement of two feet of final cover. The following procedures should be taken to satisfy cover requirements:

1. Placement of one foot of soil on the disposal area. This is needed to keep the clay from cracking and to protect it from being disturbed.
2. Grade final elevations on 2% slope in opposite direction from adjacent houses.
3. Seed, fertilize and mulch with straw the disposal area.

These items should be performed in 30 days as specified by the Solid Waste Management Rules and this office notified upon completion.

If you have questions, please advise.

Sincerely,

J. Gordon Layton, Environmental Engineer  
Solid & Hazardous Waste Management Program  
Sanitary Engineering Section

JGL:ns

cc: Mr. Billy W. Morris  
Mr. Joseph J. Stokes  
Mr. Jack W. Cahoon



Dare  
JWC

Out

August 7, 1979

Mr. Les Picker  
Marine Resources Center  
Post Office Box 967  
Manteo, NC 27594

Dear Mr. Picker:

This is to follow up on the meeting of July 25, 1979, in Manteo regarding the disposal of contaminated soil that resulted from the recent oil spills.

First, the soil was taken to a rubble site that has not been approved for disposal of solid waste. There seems to have been some confusion as to where the soil should have been taken. The request to take the soil "to the landfill" was taken by this agency to be the Dare County Landfill, and not the rubble or demolition site adjacent to the airport.

As discussed at the site, the close proximity of nearby wells increases the possibility of contamination. Therefore, the following recommendations are made to insure that this does not occur:

1. A visit by Mr. Billy Morris, District Sanitarian for the Solid and Hazardous Waste Program, to determine that adequate clay-type material was used for a cover.
2. When the cover requirement is satisfied, the area should be graded with a 2% slope. Seeding will stabilize the soil and the slope will allow runoff to move off the area, resulting in less infiltration. Seeding should be performed at the earliest possible date.
3. A 4" monitoring well should be installed at the property line between the waste soil and the nearest well. This agency will monitor the site for contamination in surface water and ground water. If contamination occurs, a determination will be made at that time on what course of action to take. This could mean placing a more impermeable cover on top or complete removal of the oil-contaminated soil to a more secure site.

In the future if such needs arise, written approval should be obtained. Also, assistance from this office on locating the proper disposal site is available and should be utilized.

Page 2  
August 7, 1979

If you have any questions, please advise.

Yours truly,

J. Gordon Layton, Environmental Engineer  
Solid & Hazardous Waste Management Program  
Sanitary Engineering Section

JGL:ns

cc: Mr. Billy W. Morris  
Mr. Joseph J. Stokes  
Mr. Jack W. Cahoon

September 27, 1979

Mr. Jack Cahoon  
Dare County Manager  
P. O. Box 1000  
Manteo, North Carolina 27954

*JGL:ns*  
Dear Mr. Cahoon:

Enclosed is a copy of the review of the proposed landfill at Mashoes. This was originally sent to Mr. Hinson since the SCS report was the only information submitted.

If you have questions, please advise.

Respectfully,

J. Gordon Layton, Environmental Engineer  
Solid & Hazardous Waste Management Branch  
Sanitary Engineering Section

JGL:ns  
Enclosure

cc: Mr. Billy Morris

UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

Post Office Box 1047, Manteo, NC 27954, (919) 473-2529

September 24, 1979



Mr. J. Gordon Layton  
Environmental Engineer  
Department of Human Resource  
PO Box 2091  
Raleigh, NC 27602

Dear Mr. Layton:

I received your letter regarding the proposed landfill site in Dare County. I am confused as to why I received this letter. I noticed that no county officials received a copy of this letter, thus it seems that your reply is directed totally toward me. I am confused! Is this letter for my information, or did you send it to me by mistake?

The only role which I played in the request for a landfill site was to provide the county a soils map of the prospective site.

If there has been a mistake, I think you should address another letter to Jack Cahoon, Dare County Manager, PO Box 1000, Manteo, NC 27954.

Sincerely,

A handwritten signature in cursive script, appearing to read "Richard Dwane Hinson".

R. Dwane Hinson  
District Conservationist

RDH/sdg

Enclosure





STATE OF NORTH CAROLINA

DEPARTMENT OF HUMAN RESOURCES

*Division of Health Services*

JAMES B. HUNT, JR.  
GOVERNOR

HUGH H. TILSON, M.D.  
DIRECTOR

SARAH T. MORROW, M.D., M.P.H.  
SECRETARY

P. O. Box 2091

Raleigh 27602

September 21, 1979

Mr. Dwane Hinson  
District Conservationist  
P. O. Box 1047  
Manteo, North Carolina 27954

Dear Mr. Hinson:

This agency has completed its review of the proposed landfill site on Mashoes Road in Dare County. This site is not approved for the following reasons:

1. Unsuitable soils
2. Water table near surface
3. Frequent inundation of area by wind tides which increase potential for leachate pollution.

Concurring with the decision not to approve this site is the attached report from the Department of Natural Resources and Community Development.

If you have questions or if this agency may be of assistance in evaluating potential sites in the future, please advise.

Yours truly,

A handwritten signature in cursive script, appearing to read "J. Gordon Layton".

J. Gordon Layton, Environmental Engineer  
Solid & Hazardous Waste Management Branch  
Sanitary Engineering Section

JGL:sms

Attachment

cc: Mr. Billy Morris

Mr. William C. Jeter

GROUND WATER SECTION  
DIVISION OF RESOURCE PLANNING AND EVALUATION  
DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES



RECORD OF WASTE OR WASTEWATER PERMIT APPLICATION REVIEW

REVIEW BY: \_\_\_\_\_ DATE \_\_\_\_\_  
FIELD INVESTIGATION BY: William C. Jeter DATE 3 August 1979  
TOWN: Mann's Harbor COUNTY Dare  
LOCATION (SKETCH ON BACK) along the east side of SR1113 approximately 0.8 miles north of the junction with US 64-264  
OWNER (S) OF FACILITY OF INSTALLATION: Dare County (proposed)  
TYPE WASTE OR WASTEWATER SYSTEM: (LAND FILL, LAGOON, ETC) Landfill  
TYPE OF WASTE: domestic solid waste  
CHEMICAL ANALYSES AND OTHER DATA AVAILABLE: soil survey  
NAME OF NEAREST STREAM: Croatan Sound DISTANCE: forms boundary of site  
DISTANCE TO NEAREST WELL: none in area within 1,000 feet  
AVG. DISCHARGE RATE N/A LIFE EXPECTANCY OF FACILITY undetermined  
DESCRIPTION OF FACILITY (SKETCH ON BACK): \_\_\_\_\_  
PROPOSED METHOD FOR PREVENTING GROUNDWATER CONTAMINATION: none proposed as this is an evaluation of the site for use as a landfill  
STRUCTURE, LITHOLOGY AND PERMEABILITY OF SURFICIAL MATERIALS: see attached soils survey  
HYDRAULIC RELATIONSHIP BETWEEN WATER TABLE AND ARTESIAN AQUIFERS: the water table over most of the site is at the land surface (+2 to 3 feet MSL) which is essentially at the same level as the head on the "principal aquifer"  
DEPTH TO BEDROCK: N/A DEPTH TO WATER TABLE: at the land surface  
MONITORING FACILITIES NEEDED: (ATTACH SKETCH) N/A  
RECOMMENDED SAMPLING SCHEDULE: N/A  
REMARKS AND RECOMMENDATIONS: Due to the height of the water table, the marsh soils underlain by sand, the proximity to Croatan Sound, and the potential for flooding by wind tides, it is strongly recommended that the proposed site not be used for the disposal of any type of wastes - particularly solid waste in a landfill.



United States Department of the Interior

NATIONAL PARK SERVICE  
DENVER SERVICE CENTER  
755 Parfet Street  
P.O. Box 25287  
Denver, Colorado 80225

IN REPLY REFER TO:

D5039-DSC-TSE

JUL 10 1979



O.W. Strickland  
Solid Waste and Vector  
Control Branch  
Division of Health Services  
P.O. Box 2091  
Raleigh, North Carolina 27602

Dear Mr. Strickland:

Reference: Cape Hatteras National Seashore; Pkg. Nos. 168  
and 179; Park General

Subject: Sewage and Solid Waste Disposal Study

The National Park Service is undertaking a comprehensive study of the problems of sewage and solid waste disposal as they affect Cape Hatteras National Seashore. This study will be performed by a consulting firm which will gather the basic information, prepare an analysis of the several factors involved, provide alternative proposals, and estimate probable costs.

The objective of this study is to identify practices employed in the disposal of sewage and solid waste which have been or could adversely affect the natural environment of Cape Hatteras National Seashore, present a potential hazard to the public health, or are in violation of the rules and regulations of authorities having jurisdiction.

In order for this study to proceed in a meaningful way, it is essential that we have the input of the several governmental units concerned since the Seashore and private lands are intermixed and since the problems do not appear to be peculiar to the Seashore.



Save Energy and You Serve America!

Accordingly, you are urged to participate in a meeting to be held at 9:00 a.m., July 26, 1979 in the office of the Superintendent, Cape Hatteras National Seashore, Manteo, North Carolina 27954, to discuss the scope of this undertaking.

Sincerely yours,

A handwritten signature in cursive script, reading "Donald L. Marley". The signature is written in dark ink and is positioned above the typed name and title.

*For:* John W. Bright  
Assistant Manager  
Southeast/Southwest Team



STATE OF NORTH CAROLINA  
DEPARTMENT OF HUMAN RESOURCES

*Division of Health Services*

EASTERN REGIONAL OFFICE  
404 ST. ANDREWS STREET  
GREENVILLE, N.C. 27834  
Telephone 756-1343

May 8, 1979

HUGH H. TILSON, M.D.  
DIRECTOR



JAMES B. HUNT, JR.  
GOVERNOR  
SARAH T. MORROW, M.D., M.P.H.  
SECRETARY

Mr. Michael Quidley  
Box 223  
Buxton, NC 27920

Dear Mr. Quidley:

This is to confirm our conversation of May 1, 1979, regarding the illegal disposal of solid waste behind your drive-in at Buxton, N.C.

You were in the process of correcting the violation at the time of my visit. You agreed to continue hauling cover material until the waste is properly covered. You also stated that the Dare County Sanitation Department is now collecting the waste from your place of business.

Thank you for your cooperation in correcting this violation.

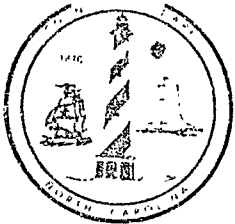
Yours truly,

*Burn*

Billy W. Morris, District Sanitarian  
Solid Waste Management Unit  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

/bgb

cc: Mr. Joe Stokes  
Mr. Mickey Davenport  
Mr. O. W. Strickland



JACK W. CAHOON  
COUNTY MANAGER

# COUNTY OF DARE

MANTEO, NORTH CAROLINA 27954

March 19, 1979

P. O. DRAWER 1000  
PHONE (919) 473-2143



Mr. Dan E. McDonald, P. E.  
Project Manager (DNR&CD)  
Wanchese Harbor Development Project  
North Carolina Department of Natural  
Resources & Community Development  
Post Office Box 27687  
Raleigh, North Carolina 27611

Dear Mr. McDonald:

This is in response to your oral request for a statement of Dare County's capability and willingness to provide a suitable landfill area and facilities for future disposal of sludge to be generated from operation of the wastewater treatment plant in the Wanchese Seafood Industrial Park at Wanchese.

Dare County's present landfill site can be readily expanded to provide for disposal of sludge from the plant at Wanchese. The County is willing to prepare an area specifically for sludge disposal and to furnish the necessary equipment and operator for proper handling and disposal. The specific area will be selected and designed in close collaboration with the N. C. Department of Human Resources (Solid Waste and Vector Control Branch) and the Dare County Health Department. Also, the operation of the sludge disposal area will be coordinated with these agencies to assure that the sludge disposal method meets all applicable Federal, State and local regulations.

Mr. O. W. Strickland, Supervisor, Solid Waste Management Unit, N. C. Department of Human Resources, in a letter to Mr. John C. White, Regional Administrator, EPA, Atlanta, dated January 22, 1979, stated that his Department will work with the County in selecting and designing a suitable landfill for the proper disposal of solid waste and dry sludge from the Wanchese Seafood Industrial Park.

Sincerely,

Jack W. Cahoon  
County Manager

JWC/pj

→ cc: Mr. O. W. Strickland  
LAND OF BEGINNINGS

January 22, 1979

Mr. John C. White  
Regional Administrator  
Environmental Protection Agency  
345 Courtland Street, NE  
Atlanta, Georgia 30308

Dear Mr. White:

I have discussed the solid waste disposal, including sludge, from the Wanchese Seafood Industrial Park, Wanchese Harbor, Dare County, North Carolina, with Mr. Daniel McDonald representing the N. C. Department of Natural Resources and Community Development, and Mr. Jack W. Cahoon, Dare County Manager.

*AW + VC*  
This agency will work with Mr. Cahoon in selecting and designing a suitable landfill for the proper disposal of the solid waste and dry sludge from the above listed facility.

Sincerely,

O. W. Strickland, Supervisor  
Solid Waste Management Unit  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

OWS/wss

cc: Mr. Jack W. Cahoon  
Mr. Daniel McDonald



STATE OF NORTH CAROLINA  
DEPARTMENT OF HUMAN RESOURCES

*Division of Health Services*

EASTERN REGIONAL OFFICE  
404 ST. ANDREWS STREET  
GREENVILLE, N.C. 27834  
December 15, 1978

JACOB KOOMEN, M.D., M.P.H.  
DIRECTOR



JAMES B. HUNT, JR.  
GOVERNOR

SARAH T. MORROW, M.D., M.P.H.  
SECRETARY

Mr. Albert Austin, Sr.  
Hatteras, N.C. 27943

Dear Mr. Austin:

I am writing to confirm our conversation on December 6, 1978, regarding property owned by you next to Mr. Ruben Trent's property at Hatteras, North Carolina.

We agreed to allow you to compact and cover the solid waste that has been dumped in the ditch and low area next to the marshland, rather than removing it. We also agreed that this work will be completed by February 1, 1979.

Mr. Roy McCarter, of the Dare County Health Department, and I also talked to Mrs. Ruben Trent. We explained that the dumping of solid waste on your property is in violation of the N. C. Division of Health Services "Solid Waste Management Rules." She agreed to discontinue this illegal practice.

Your cooperation concerning this problem will be greatly appreciated by this office.

Yours truly,

Billy W. Morris, District Sanitarian  
Solid Waste Management Unit  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

/bgb

cc: Ruben Trent  
Albert Austin, Jr.  
Hydous Austin  
Joe Stokes  
Roy McCarter  
O. W. Strickland  
T. S. Ellis

- *Done*  
*DWVC*

November 22, 1978 -

Mr. T. S. Ellis  
1045 Luxford Lane  
Virginia Beach, VA 23455

Dear Mr. Ellis:

Your letter of November 3, 1978, in reference to a solid waste problem in Hatteras Village, North Carolina, has been received.

I am asking Mr. Billy W. Morris, District Sanitarian, to investigate the condition on his next visit to the area.

You will be informed of our findings as soon as the visit is made.

Sincerely,

O. W. Strickland, Supervisor  
Solid Waste Management Unit  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

OWS/wss

cc: Mr. Billy W. Morris

November 3, 1978

NOV 10 1978

Department of Health  
State of North Carolina  
Raleigh, N.C.



Gentlemen:


I am directing this letter to you in the interests of several property owners in Hatteras Village, N.C.

A Mr. Ruben Trent, who resides in Virginia Beach, Va. owns a piece of property he purchased from Mr. Albert Austin, a long-time resident of Hatteras. Mr. Trent permitted his son, also named Ruben, to occupy a frame house located on this property.

Several months ago, this house burned down and no attempt whatever has been made to clean up the resultant mess. On the contrary, considerable trash, including two old junk automobiles, has been added in the marshlands. It is not only unsightly, unhealthy, but extremely distasteful to his neighbors who have protested to Mr. Trent on several occasions to no avail.

The property in question is behind the Channel Bass Restaurant and is reached from the by-pass road from the main road entering into Hatteras. I have prepared this letter for the protesting surrounding property owners and I have seen the problem personally. Unfortunately, the local authorities have refused to take any action.

Anything you may be able to do will be deeply appreciated.

Very truly yours,  
  
T.S. Ellis

1045 Luxford Lane  
Virginia Beach, Va. 23455



STATE OF NORTH CAROLINA  
DEPARTMENT OF HUMAN RESOURCES  
*Division of Health Services*

JAMES B. HUNT, JR.  
GOVERNOR

SARAH T. MORROW, M.D., M.P.H.  
SECRETARY

JACOB KOOMEN, M.D., M.P.H.  
DIRECTOR

EASTERN REGIONAL OFFICE  
404 ST. ANDREWS STREET  
GREENVILLE, N.C. 27834

August 3, 1978



Mr. Huff Mann  
P. O. Box 103  
Manns Harbor, NC 27953

Dear Mr. Mann:

I am writing to confirm our August 1, 1978, conversation regarding the illegal waste disposal site you are now operating. This site is located on N.C. 345 next to Mann's Supermarket near Wanchese, North Carolina.

We agreed that you would have the present pit filled with non-putrescible waste such as concrete, bricks, stumps, wood products, and dirt by September 1, 1978. Cardboard, paper, cans, household garbage, and your supermarket waste will not be allowed in this pit.

Your cooperation in bringing this illegal solid waste disposal site into compliance with the N. C. Division of Health Services "Solid Waste Management Rules" will be appreciated. Someone will inspect the site on or after the September 1, 1978, date that we agreed on to determine compliance.

Yours truly,

Billy W. Morris, District Sanitarian  
Solid Waste Management Unit  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

/bgb

cc: Mr. Joe Stokes  
Mr. O. W. Strickland

Mr. Billy W. Morris, District Sanitarian  
Eastern Regional Office  
404 St. Andrews Street  
Greenville, NC 27834



Dear Mr. Morris:

I have contacted Mr. Paul Hodge who has 12 acres of land in Wanchese which he will be clearing in the next 30 days and he will use this material to fill in the hole.

At the supermarket we have a dumpster which is emptied everyday by the county. No supermarket waste or raw garbage is being dumped in the hole at all. All material being put in the hole is coming from a county road leading to a well site constructed by the county. No dumping signs have been posted on this road. I think it would help if the county would put a gate on this road.

Mr. Hodge will try and get the hole filled in prior to September 1, 1978, weather permitting.

Sincerely,

A handwritten signature in cursive script that reads 'Orman L. Mann (caj)'. The signature is written in dark ink.

Orman L. Mann

OLM/caj

cc: Mr. Joe Stokes  
Mr. O. W. Strickland

May 9, 1978

Mr. Jack W. Cahoon  
Dare County Manager  
Administration Building  
Drawer 1000 *W*  
Manteo, North Carolina 27954

Dear Mr. Cahoon:

I would like to call your attention to two items in our State Standards that I feel would improve your landfill operation and, also, help with litter control on the street leading to the landfill.

Section .0105 (b) requires that vehicles and containers used for the collection and transportation of garbage (or refuse containing garbage) be covered, leakproof, durable, and of easily cleanable construction.

Section .0116 (7) requires that an attendant be on duty at the site at all times while it is open for public use.

A copy of the Standards is enclosed for your review.

Thanking you in advance for your cooperation in enforcing the above listed items.

Sincerely,

O. W. Strickland, Supervisor  
Solid Waste Management Unit  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

OWS/wss

cc: Mr. Billy W. Morris

enclosure

March 20, 1978

MEMORANDUM

TO: Mr. Dan McDonald  
N. C. Department of Natural Resources  
& Community Development  
Room 411 - Archdale Building

FROM: Jerry G. Perkins, Head  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

Following the discussion among you, Steve Coleman, O. W. Strickland, and myself on March 17, 1978, the following information is provided in regard to the Wanchese Harbor Development Project in Dare County, North Carolina:

J & R

This office is in complete agreement that untreated sewage waste and the seafood processed waste should be handled and disposed of in completely separate systems.

The first choice for disposal of the seafood processed waste is disposal by rendering into a marketable product. Due to the quantity and concentration of the putrescible processed waste, it is not recommended that disposal of these wastes be considered at a traditional solid waste disposal site.

Second choice for disposal then becomes disposal by separate landfill which would require adoption of special handling techniques, approved site, equipment, and supervision.

Processed waste includes sludges developed from treating effluents from the processing work areas provided these sludges meet free moisture criteria. Mr. Coleman indicated that the proposals for sludge formation included formation of a relatively dry sludge created by the use of alum and certain polymers.

This office appreciates the opportunity to discuss those proposals and stands ready to provide other assistance if needed.

JCP:bm  
cc: Mr. Steve Coleman

SUBJECT: Telephone Conversation with Steve Coleman, J.E. Sirrine Company, Raleigh.  
782-8900

A proposal is being considered toward the disposal of float material from the Wanchese Harbor <sup>development</sup> Project, Dare County, North Carolina. This proposal is being considered for possible use for 3-4 years or longer with rendering waste material being the long-range objective when sufficient volume will justify the cost. The proposal is to add a thickner which may be a polymer or alum material to the 10-20 percent solids. These solids would be raw processed waste primarily from the fishing industry with untreated sewage mixed in. It is anticipated that over the 3-4 year period, the average flow of processed waters would be 100 gallons per minute on a daily basis. Two to three percent of this flow would be represented by the float process waste or approximately three gallons per minute of the 20 percent solids/80 percent liquid material. This computes to roughly 160 cubic feet of waste material per day. Their basic question is whether this material can be considered for landfill disposal under any circumstances. The proposed operator of the treatment plant and the supervisor of the solid waste management program in Dare County are the same persons.

3-17-78

WANCHESE HARBOR Commission

DAN Mc DONALD  
DNR CD  
Room 411

By: Jerry C. Perkins, Head  
Solid Waste & Vector Control Branch  
Division of Health Services

March 6, 1978

$\frac{24}{14} \frac{60}{4} \frac{000}{000}$

SEA  $\frac{1}{2}$  SOUND SEAFORD  
BEA FORT

Quantity - Max / Time /

Regulations - No sewage waste

DAN Mc DONALD

PROJECT WASTE

SLUDGE + PRE-TREATMENT  
SUPERVISOR " PROCESS WASTE

SEPARATE SITE / APPROVED RENDERING 1ST CHOICE.  
TRANSPORTATION  
11

J.E. Sirrine Co.  
2610 WYCLIFF RD.  
WAL, N.C.  
27607

- Dare  
JMR

October 10, 1977

Mrs. W. W. Haley  
1329 Amherst Avenue  
Richmond, Virginia 23227

Dear Mrs. Haley:

Please find enclosed the report concerning your complaint of solid waste disposal practices near your property in Frisco, North Carolina. As referenced in the report, remedial action has been initiated and follow-up procedures outlined.

Your photographs are herewith returned.

I trust that these actions will be satisfactory to you.

Sincerely,

Marshall Staton, Chief  
Sanitary Engineering Section

Enclosures

cc: Mr. Billy W. Morris  
Mr. Joseph J. Stokes

DEPARTMENT OF HUMAN RESOURCES  
DIVISION OF HEALTH SERVICES  
SANITARY ENGINEERING SECTION

REPORT OF INVESTIGATION OR INSPECTION OF W. W. Haley Complaint

Place visited W. W. Haley residence Date September 26 19 77  
Address Frisco, NC (Dare County) Time spent 10 hrs. (including  
travel time)  
By whom Billy W. Morris, District Sanitarian, Solid Waste Management Unit  
Persons contacted Mr. and Mrs. W. W. Haley  
(Owner, agent, tenant, manager, other)  
Reason for visit To investigate solid waste disposal complaint  
Copies to: ☒ Mr. Jerry Perkins, Head, Solid Waste and Vector Control Branch  
☒ Mr. O. W. Strickland, Unit Supervisor, Solid Waste Management Unit

**REPORT:**

This investigation was done at the request of Mr. Marshall Staton, Chief, Sanitary Engineering Section, and Mr. Jerry Perkins, Head, Solid Waste and Vector Control Branch. I was requested to investigate and report upon the solid waste disposal problems described in a letter addressed to Mr. Marshall Staton dated August 8, 1977, and signed by Mrs. W. W. Haley.

In my opinion, the area across from the Haley's property (shown in the photographs that are labeled "A") and described in Mrs. Haley's letter as a "ditch . . . excavated for the purpose of a county dump" does constitute a solid waste disposal problem. This area was never used as a county disposal site to my knowledge. However, the area has become a small promiscuous dump. Mr. and Mrs. Haley were informed that the property owner would be contacted and requested to cover or remove all solid waste from the area. Access prevention will also be recommended as a permanent means of controlling the problem. Because Dare County offers house to house collection as well as dumpster service in the Frisco area, I feel that this small dump can be easily eliminated.

During my investigation Mr. and Mrs. Haley discussed other environmental problems such as a closed mosquito control ditch and sewage odors in a pond located adjacent to their property. They stated that the mosquito control ditch was their major concern. I informed them that as District Sanitarian for Solid Waste it was my responsibility to investigate only the solid waste disposal problem.

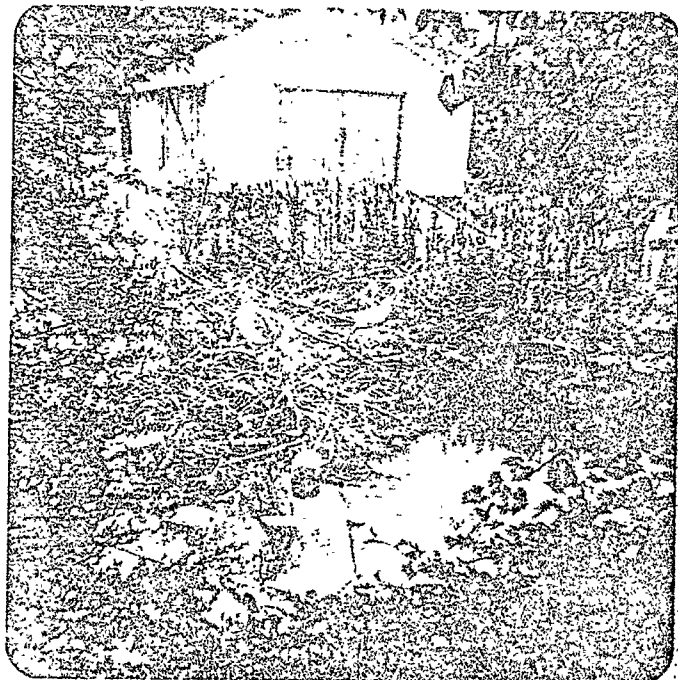
A

Two photos of dump within 200 feet of our property.  
Photos taken July, 1977.      End of excavation



B

Two lower photos of pond on property adjacent to our property. There is no out-let or in-let to this pond; only the spillage when it becomes flooded with rain water onto our property. Photos taken July, 1977.



October 10, 1977

Mr. Jack Cahoon  
County Manager  
Dare County Courthouse *JJS*  
Manteo, North Carolina 27954

Dear Mr. Cahoon:

I am in receipt of an inspection report on the Hatteras Island Rubble Site, inspection made by Mr. Billy W. Morris, District Sanitarian, on September 26, 1977. A copy of the report is enclosed for your information.

Your assistance is requested in carrying out the corrective action requested in Mr. Morris's report.

By copy of this letter I am asking Mr. Morris to reinspect the site on his next visit to the area, and the condition found will govern future action on the site.

Thanking you in advance for your cooperation, and congratulations on your new equipment.

Sincerely,

O. W. Strickland, Supervisor  
Solid Waste Management Unit  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

OWS/ws

Enclosure

cc: Mr. Joseph J. Stokes  
Mr. Billy W. Morris

DEPARTMENT OF HUMAN RESOURCES  
DIVISION OF HEALTH SERVICES  
SANITARY ENGINEERING SECTION

REPORT OF INVESTIGATION OR INSPECTION OF Rubble Site

Place visited Hatteras Island Rubble Site Date September 26 19 77  
Address Buxton, N. C. Time spent 1 hr.  
By whom Billy W. Morris, District Sanitarian, Solid Waste Management Unit  
Persons contacted Mr. Joe Stokes, Dare County Health Department  
(Owner, agent, tenant, manager, other)  
Reason for visit Routine site inspection  
Copies to: ☒ Mr. O. W. Strickland, Unit Supervisor, Solid Waste Management Unit

**REPORT:**

The intended use of the Hatteras Island Rubble Site is for material such as building debris that frequently accumulates on the island. The site is being allowed due to the hardship of a long haul distance to the Dare County Landfill in Manteo.

Inspection Report:

This site was found to be in very poor condition with little or no management. An attendant was not present on the site at the time of my inspection (approximately 2:30 p.m.). The volume of waste being received has increased considerably over previous visits. All types of waste including household garbage, paper, and large amounts of cardboard are being disposed of here.

Corrective Action:

1. All waste now on the site must be compacted and covered.
2. An attendant must be present when the gate is open to make sure that rubble only is disposed of on this site.
3. Paper, cardboard, cans, bottles, and household garbage are prohibited at this site.

If the above requirements cannot be met I feel that we have no other choice than to permanently close the site.

With house-to-house collection and dumpster service available on the island, I believe this site can be properly controlled with good management.

August 30, 1976

Mr. Maurice Edmondson  
Supervisor of Sanitation  
Dare County Health Department  
Post Office Box 243  
Manteo, North Carolina 27954

*ER*  
Dear Mr. Edmondson:

I would like to thank you and Mr. Joe Stokes for meeting with Mr. Billy W. Morris, District Sanitarian, and me on August 26, 1976, to evaluate the Dare County solid waste management program.

The site at Manteo is about full so it is very important for the additional phase to be planned and put into operation as soon as possible. As we discussed, we will need three sets of the plan, including cross-section drawings to show the height of the fill as well as degree of slope on the dike. A legal description of the site will also be needed.

To properly close out the old part of the Manteo site, we will expect you to carry out the plan that you, Mr. Stokes, Mr. Morris, and I agreed upon while on-site.

I cannot stress enough the importance of the necessity of operating the site within the operational requirements of the "Solid Waste Management Rules" of the Division of Health Services. To be able to operate within the intent of the above rules, it will be necessary that adequate equipment and manpower be on the site at all times as well as proper supervision be provided. Cover material is always a problem on sites that are operated above ground so you may want to consider specialized equipment to get better compaction thereby reducing the amount of cover material needed.

The site on Watteras Island used for rubble can continue to operate as we discussed provided you continue to keep a man at the gate to control the waste received.

In conclusion, I think we had a very good meeting with some positive decisions made. Mr. Morris and I look forward to working with you in bringing the disposal site into full compliance.

Sincerely,

O. W. Strickland, Supervisor  
Solid Waste Management Unit  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

OWS:bm

cc: Mr. Billy W. Morris  
Mr. Jack Cahoon  
Mr. Joe Stokes

July 6, 1976

CERTIFIED MAIL

✓ Mr. Jack Cahoon  
Dare County Manager  
Courthouse  
Manteo, NC 27954 *JRC*

Dear Mr. Cahoon:

I am in receipt of an inspection report on the Dare County landfill on June 29, 1976, by Mr. Billy W. Morris, District Sanitarian. The report shows that the major violations that I wrote you about in a letter dated March 31, 1976, are still in violation. In reviewing the records, I find that the site has had major violations on each inspection over the last two years.

This letter is to inform you that the site will be re-inspected on or about August 15, 1976. If the site is not in full compliance with the Division of Health Services "Solid Waste Management Rules" -- .0116 Operational Requirements for Sanitary Landfills -- your approval to operate will be cancelled in accordance with .0210 Denial or Cancellation of Approval of the "Solid Waste Management Rules" (copy enclosed).

If there are questions or Mr. Morris or I can be of assistance, please let me know.

Sincerely,

O. W. Strickland, Supervisor  
Solid Waste Management Unit  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

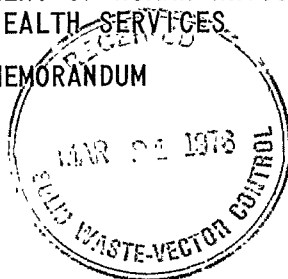
OVS:bm

cc: Mr. Billy W. Morris  
Dare County Health Department  
Mr. Robert V. Owens  
Mr. Donald A. Tillott  
Mr. Thomas B. Gray  
Mr. Rondal E. Tillott  
Mr. Russell Langley

Mr. Sidney H. Usry  
Mr. William Harris  
Lt. Commander Ralph Fink, III  
Lt. James Doyle

NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES  
DIVISION OF HEALTH SERVICES

OFFICE MEMORANDUM



3/23/76 DATE

TO: O. W. Strickland  
FROM: B. Morris  
RE: Federal Agencies - Dare County

These are leads of Federal Agencies  
in Dare County. Hope this information  
will help.

① Mr. William Harris  
Supt. of Park Service  
Cape Hatteras National Seashore  
U. S. Park Service  
Manteo, N.C.

Tel. # 473-2113

② Lt. Commander Ralph Fink, III (Commanding officer)  
U. S. Naval Facility Administration  
Buxton, N.C.

Tel. # 995-2811

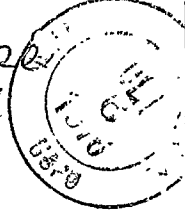
③ Lieutenant James Doyle  
U. S. Coast Guard Group Office  
Buxton, N.C.

Tel. # 995-2411



No. 319460

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO <i>Mr. Jack C. Koon</i>		POSTMARK OR DATE 
STREET AND NO. <i>One Co. mgr. Courthouse</i>		
P.O., STATE AND ZIP CODE <i>Manteo, NC 27954</i>		
OPTIONAL SERVICES FOR ADDITIONAL FEES		
RETURN RECEIPT SERVICES	1. Shows to whom and date delivered .....	15¢
	With delivery to addressee only .....	65¢
	2. Shows to whom, date and where delivered ..	35¢
	With delivery to addressee only .....	85¢
DELIVER TO ADDRESSEE ONLY .....		50¢
SPECIAL DELIVERY (extra fee required) .....		

PS Form 3800 NO INSURANCE COVERAGE PROVIDED— (See other side)  
Apr. 1971 NOT FOR INTERNATIONAL MAIL ★ GPO : 1974 O - 551-454

Mr. Lowell M. Perry  
July 6, 1976  
Page 2

Please contact me if I can be of any further assistance to you.

Sincerely,

*Billy W. Morris*

Billy W. Morris  
District Sanitarian  
Solid Waste and Vector Control Branch  
Sanitary Engineering Section

/ae

cc: Mr. Joe Stokes  
Mr. O. W. Strickland ✓

March 31, 1976

Mr. Jack Galloway  
Bare County Manager  
County Courthouse  
Wintco, North Carolina 27954

Dear Jack:

This letter will confirm our telephone conversation of March 31, 1976, with reference to the solid waste management system in Bare County.

A copy of an inspection report on the rubble site at Wintco is enclosed. As there is a man on-site during the hours the site is open, I see no reason for violation. I am asking Mr. Morris to reinspect the site on his next visit to the area and the conditions found will determine future actions.

The County landfill at Wintco has improved in daily operation on the working face but we still have major problems on the site due to not following the site plan. The side slopes are much too steep to stabilize; they need to be properly sloped and stabilized. All completed areas needs the two feet of final cover, properly graded to prevent erosion and to control surface drainage. Blowing rock should be returned to the working face at the close of each operating day.

The site is receiving waste from Federal Facilities, Park Service, naval facilities and Coast Guard; for this waste to continue to be received the site must be placed in full compliance and remain that way. If it is not economically feasible for you to receive this waste, please let us know by return mail, so I have the name and address of the proper official to contact, so they can be informed that they must provide their own facilities.

If there are questions concerning bringing your site into full compliance, please let us know and Mr. Morris and I will visit with you.

Thank you in advance for your cooperation.

Sincerely,

O. A. Strickland, Supervisor  
Solid Waste Management Unit  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

043/ct

Enclosure (2)

cc: Mr. Billy W. Morris  
Bare County Health Department  
Mr. J. A. Elliott

**STATE BOARD OF HEALTH**  
**SANITARY ENGINEERING DIVISION**  
**RALEIGH, NORTH CAROLINA**

**REPORT OF INVESTIGATION OR INSPECTION OF** Wanchese Site

Place visited Wanchese Rubble Site Date 3/17 19 76  
Address Wanchese, N. C. Time spent 2 hours  
By whom Billy W. Morris, District Sanitarian, Solid Waste & Vector Control Branch  
Persons contacted Mr. Joe Stokes, Dare County Health Department  
(Owner, agent, tenant, manager, other)  
Reason for visit Inspection of rubble site  
Copies to: O. W. Strickland, Solid Waste & Vector Control Branch

**REPORT:**

The rubble site operated by Dare County at Wanchese was inspected on March 17, 1976.

The site is suppose to receive rubble such as stumps, leaves, limbs, and demolition waste. It is not operated as a sanitary landfill with daily cover and compaction. Equipment is brought in periodically to push waste in trenches which are full of water.

The site was in very poor condition at the time of the inspection. Household waste, cans, cardboard, and other types of paper are being disposed of at the site.

This site does have an attendant during operational hours.



✓  
*Dare*  
*clrk*

DEPARTMENT OF HUMAN RESOURCES  
DIVISION OF HEALTH SERVICES  
SANITARY ENGINEERING SECTION

**REPORT OF INVESTIGATION OR INSPECTION OF** \_\_\_\_\_ **Complaint** \_\_\_\_\_

Place visited Wanchese (Gray's Wharf) Date 3/17 19 76

Address Wanchese, N.C. Time spent \_\_\_\_\_

By whom Billy W. Morris, District Sanitarian, Solid Waste & Vector Control Branch

Persons contacted Mr. Joe Stokes, Dare County Health Department  
(Owner, agent, tenant, manager, other)

Reason for visit Request for Service by Mr. Lawrence Craighead

Copies to: Mr. Lawrence Craighead, Wanchese, N.C.  
☒ Mr. O. W. Strickland, Solid Waste & Vector Control Branch

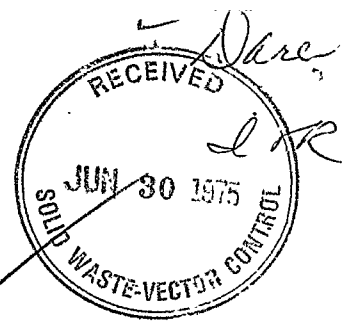
**REPORT:**

Mr. Lawrence Craighead of Wanchese notified this office of a solid waste problem at Gray's Wharf at Wanchese.

Mr. Joe Stokes of the Dare County Health Department and I investigated the area and found a large accumulation of solid waste.

We contacted Mr. Roydan Daniels of Globe Fishing Company in Elizabeth City who owns the property. Mr. Daniels agreed to allow the county to barricade the property at the end of the State road which should help alleviate the problem.





STATE OF NORTH CAROLINA

DEPARTMENT OF HUMAN RESOURCES

*Division of Health Services*

JAMES E. HOLSHOUSER, JR.  
GOVERNOR

DAVID T. FLAHERTY  
SECRETARY

JACOB KOOMEN, M.D., M.P.H.  
DIRECTOR

EASTERN REGIONAL OFFICE  
404 ST. ANDREWS STREET  
GREENVILLE, N.C. 27834

June 27, 1975

Mr. Sidney Toler  
Kitty Hawk  
North Carolina 27949

Dear Mr. Toler:

I am writing in reference to property owned by you located approximately  $\frac{1}{4}$  mile west of Kitty Hawk, Country Store on S.R. 1206.

Mr. Joe Stokes of the Dare County Health Department and I inspected the property in response to a complaint on dumping of solid waste.

It appears from our inspection that you are allowing individuals to dump waste here in an effort to fill a low area. You are receiving a large amount of garbage, paper, cardboard, cans, etc. along with the clean solid fill. This is in violation of the North Carolina Division of Health Services "Rules and Regulations Providing Standards For Solid Waste Disposal."

The following action must be taken to correct the problem:

1. Install a fence or other means of access control to the site.
2. Cover all waste now on the site with compacted earth.
3. No paper, cardboard, cans, or garbage can be disposed of on this site.
4. Only demolition waste, building debris (lumber, brick, concrete), land clearing waste (tree limbs and stumps) and other clean woodwaste can be disposed of on this site.

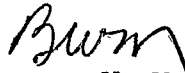
The stipulations above apply only to the site on S.R. 1206. No other solid waste disposal site can be started without prior approval of this office.

Permission to continue filling this site will depend upon how well you control access and the type of waste that is disposed of. If these cannot be strictly controlled you must stop all disposal on this property.

Mr. Sidney Toler  
June 27, 1975  
Page 2

If we can answer any questions concerning this matter, please  
contact us.

Sincerely,



Billy W. Morris  
District Sanitarian  
Solid Waste Management Unit  
Solid Waste and Vector Control Branch  
Sanitary Engineering Section

/dlb

cc: Mr. Joe Stokes  
✓ Mr. O. W. Strickland

Mr. Strickland

April 10, 1975

Mr. Jim Dunning  
Cape Hatteras National Seashore Park  
Manteo, North Carolina 27954

Dear Mr. Dunning:

As you are aware suitable land for a landfill site on Hatteras Island is at a premium. Since July of 1973, the Dare County Health Department and myself, without success, have been trying to locate a suitable site. The National Park Service owns the only land that will meet all of the requirements of the Health Department, therefore, I am making an appeal for an area of twenty-five (25) acres located between the Cape Hatteras Coast Guard Station and the National Park Service Maintenance Yard. This piece of property has easy access, very little vegetation, and the waste could be disposed of very cheaply by covering in trenches.

Currently the waste is having to be transported sixty (60) miles to Manteo and is drastically reducing the life of the landfill site that is supported by the taxpayers of Dare County. The National Park Service creates the majority of the waste that is picked up on Hatteras Island, therefore, I feel that they have a responsibility for providing land for such a site.

I appreciate the cooperation that you have given to the people of Dare County, but as stated previously I have been involved for almost two years, without success, and my patience has come to an end. Unless the National Park Service makes an effort to help the county solve this problem by June 30, 1975, the county landfill site will have to be closed to all waste created by the Park Service.

Very truly yours,

Jack W. Cahoon

JWC/j

cc: Congressman Walter B. Jones  
Robert V. Owens

January 26, 1976

Mr. Jack Cahoon  
Dare County Manager  
County Courthouse  
Manteo, North Carolina 27954

Dear Mr. Cahoon:

The material that you recently brought to my office with reference to placing an incinerator in ~~Dare~~ <sup>2 SP</sup> County has been reviewed.

The Consumat System is on the approved list of incinerators but I call to your attention that all incinerators must be approved by the Department of Environmental Management and this office prior to any construction.

I would also like to recommend that the two incinerator system be used instead of the one large unit as it gives a back-up system when one unit is down.

Our experience in North Carolina with incinerators is very limited as we have only one municipality utilizing an incinerator. We do have numerous units that serve hospitals, commercial establishments, and etc. with good results.

Please let me hear from you as soon as possible on the progress that is being made as we must have a solution prior to another tourist season.

Sincerely,

O. W. Strickland, Supervisor  
Solid Waste Management Unit  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

OWS/ct  
Attachments

cc: Mr. Billy Morris  
Mr. Joseph J. Stokes

October 10, 1974

Mr. Jack W. Cahoon  
County Manager  
Dare County  
Manteo, N. C. 27954 *JJR*

Dear Mr. Cahoon:

In a recent review of solid waste plans and site review, it was discovered that information submitted concerning the Wanchese Landfill was not processed properly. As you may recall, it was attached to the Manteo Landfill data, when submitted. Offering no excuses, it was an oversight on our behalf and we now need your assistance to complete the review.

We have on file (1) location map, exhibit #1; (2) a deed description, exhibit #2; (3) an aerial photo, exhibit #3, and (4) a plot plan with a single trench, exhibit #4.

To complete the Wanchese site evaluation, soil borings and their results are needed to specify soil types and water table depths. A location map showing where the borings were taken is to be submitted also.

To complete the operational plan, the following is to be submitted:

- (1) a plot plan indicating the extent of trenching proposed.
- (2) cross sectional drawings showing the proposed excavation depth, the original ground elevation, and the proposed height of fill.

By copy of this letter, Mr. Bill Morris of the Greenville Regional Office is requested to discuss the above requirements with you on his next visit to Dare County. If this office can be of further assistance, do not hesitate to call. All new information is to be submitted in triplicate as before.

Yours truly,

Jerry C. Perkins, Assistant Head  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

JCP/ct

cc: Mr. Bill Morris

June 13, 1974

Capt. David B. Hunt  
Bioenvironmental Engineer  
Department of the Air Force  
USAF Hospital  
Seymour Johnson (TAG)  
Seymour Johnson Air Force Base  
North Carolina 27531

Dear Captain Hunt:

The nearest approved solid waste disposal site to the  
gunnery range in Dare County is the site operated by  
Dare County near Manteo.

I would suggest you contact the County Manager.

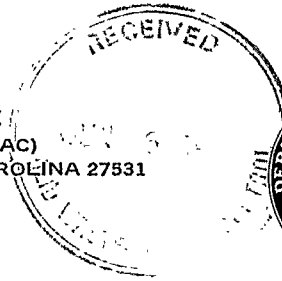
Sincerely,

O. W. Strickland, Supervisor  
Solid Waste Management Unit  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

OWS/cc

cc: Mr. Bill Morris  
Mr. Jack Cahoon, Dare Co. Manager

DEPARTMENT OF THE AIR FORCE  
USAF HOSPITAL, SEYMOUR JOHNSON (TAC)  
SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA 27531



REPLY TO  
ATTN OF: SGPM

15 May 1974

SUBJECT: State Approved Sanitary Landfills

TO: North Carolina Dept of Natural and Economic Resources  
Solid Wastes Division  
Raleigh, NC 27611

1. The Air Force operates a gunnery range in Dare County, NC. This facility is located on US 264 between Engelhard and Stumpy Point.
2. Request guidance concerning the location of the nearest State approved sanitary landfill for disposal of solid wastes generated at the range. Specific communities which would be convenient are Engelhard, Stumpy Point, Manns Harbor, and Manteo.

*David B. Hunt*

DAVID B. HUNT, Capt, USAF, BSC  
Bioenvironmental Engineer

SGPM

State Approved Sanitary Landfills

15 May 1974

North Carolina Dept of Natural and Economic Resources  
Solid Wastes Division  
Raleigh, NC 27611

1. The Air Force operates a gunnery range in Dare County, NC. This facility is located on US 264 between Engelhard and Stumpy Point.
2. Request guidance concerning the location of the nearest State approved sanitary landfill for disposal of solid wastes generated at the range. Specific communities which would be convenient are Engelhard, Stumpy Point, Manns Harbor, and Manteo.

DAVID B. HUNT, Capt, USAF, BSC  
Bioenvironmental Engineer

May 28, 1974

Mr. Carlisle N. Davis  
Mayor, Town of Manteo  
P. O. Box 264  
Manteo, N. C. 27954

Dear Mr. Davis:

While one of our representatives was at the Dare County solid waste disposal site, it was observed that the vehicle used to haul solid waste by the Town of Manteo was not covered or leakproof as required by the Division of Health Services Rules and Regulations. JHR

This office requests that the Town comply on or before July 1, 1974.

Thanking you in advance and if we can be of any service, please let us know.

Sincerely,

O. W. Strickland, Supervisor  
Solid Waste Management Unit  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

OWS/cc

cc: Mr. Billy Morris  
Mr. Jack Cahoon  
Dare County Health Department  
Attn: Mr. Stokes

# COUNTY OF DARE

## MANTEO, NORTH CAROLINA

OFFICE OF BOARD OF COMMISSIONERS  
P. A. TILLET, CHAIRMAN, KITTY HAWK  
R. V. OWENS, MANTEO  
W. P. DILLON, BUXTON  
RONDAL K. TILLET, WANCHESE  
H. R. LANGLEY, MANNS HARBOR

August 7, 1973

MELVIN R. DANIELS,  
REGISTER OF DEEDS AND  
EX-OFFICIO CLERK TO THE BOARD

KELLOGG & WHELESS  
GENERAL COUNSEL

Mr. O. W. Strickland  
Sanitary Engineering Division  
North Carolina State Board of Health  
Raleigh, North Carolina

Dear Mr. Strickland:

In accordance with North Carolina State Board of Health Sanitary Engineering Division Bullentin # 411, we are enclosing the required material in Section IX, parts A and B concerning required information for approval of a Sanitary Landfill Sites and Operational Plan.

### Section IX-A: Site Plan

- A-1. See exhibits # 1, 2, 6 .
- A-2. The water table varies as: wooded area 4' to 5' elevation - Swamp 2' - Marsh 6' to 8'.
- A-3. Cover material is sand.
- A-4. There are no watercourse through the site and any drainage from this area would be to Croatoan Sound if any.
- A-5. On the Outer Banks the mean elevation above high water is less than 2' therefore we feel the site we offer is average.
- A-6. A copy of our deed with legal description of the site is exhibit 7. The title is certified by Martin Kellogg, Jr., Attorney, Manteo, N.C.

### Section IX-B: Operational Plan

- B-1. See exhibits 3, 4.

The site is fenced. Winds are southwest in summer, northeast in winter. There are no utilities on the property or proposed buildings. Access roads are shown on exhibit 3. The population to be served is about 5,000 permanent - 35,000 tourist influx. The service would be for homes and commercial business. We are not involved with collection of any industrial waste refuse. The anticipated type of material will be garbage and refuse, excluding building material (Note: this material at another site). Collection will average 3 times a week. As shown in exhibit #4, a canal will be dug and the spoil piled by the canal. A shallow trench will be dug. The trench will be approximately 30' wide x 500' long. The trench will be parrell to the spoil. The spoil from the canal will be used as further windbreak and will be used to cover the trenches as it is filled. New trenches will be made in squences and spoil from the same canal along with spoil from the trenches itself will be used to cover waste.

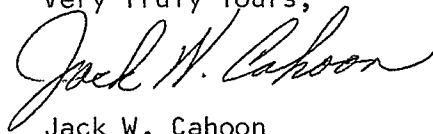
Page 2  
August 7, 1973  
Mr. O. W. Strickland

Attached letter with type and number of pieces of equipment. Supervision will be employees of Dare County. Intended use of land after completion - uncertain at this time.

Directional and operational signs are provided with instructions to the public as supervised by Dare County employees.

Operational Plans for the Wanchese Landfill Site as provided with attached exhibits 1, 2, 3, and 4. Only old building material and old appliances will be allowed at this site. Site to be under the direction and supervision of Dare County employees. Equipment for the operation of this site will be transported back and forth from the Manteo Landfill Site.

Very Truly Yours,

A handwritten signature in cursive script, reading "Jack W. Cahoon". The signature is written in dark ink and is positioned above the printed name.

Jack W. Cahoon

JWC/lfm

June 13, 1973

John E. Sledge, Jr., M.D.  
Health Director  
Dare County Health Department  
Post Office Box 248  
Manteo, North Carolina 27954

Dear Dr. Sledge:

In reply to your letter of June 6, 1973, concerning the Dare County solid waste disposal area, I have discussed the matter with Mr. O. W. Strickland and Mr. Fred J. Wood since Mr. Wood has recently visited the county and discussed the problem with the county officials.

The Dare County Commissioners have not presented to this agency the necessary data for site approval and operational plans for a sanitary landfill as required by the North Carolina State Board of Health "Rules and Regulations Providing Standards for Solid Waste Disposal." Until such time as they comply with these regulations it will not be possible for us to approve an operating facility. The Farmers Home Administration will not release grant money until such time as the county is in compliance with the requirements of this agency for a solid waste disposal facility.

Previously there had been a request from the county to extend the present disposal area further across the marsh with the idea of dyking the area and extending the present landfill. In a letter to Mr. Dewey Boseman on September 26, 1972, the extension of this site was denied on the basis of a potential for the pollution of the well field that is used to supply water for the Town of Manteo. I have again discussed the proposal of extension with Mr. W. J. Stevenson, Chief, Water Supply Section, and it is still their opinion that this extension shall not be granted due to the potential pollution problem.

In a conference with Mr. Wood and Strickland, it is our opinion that the best site for the sanitary landfill to serve Dare County is located in the vicinity of the airport and was under consideration at one time. I think that this site should again be investigated and increased efforts made to obtain the area for use as a sanitary landfill as I am sure it could be developed very satisfactorily.

Dr. John B. Sledge, Jr.

Page 2

June 18, 1973

The personnel of this section will again visit Dare County in early July to work with you and your staff in the location and the development of a satisfactory solid waste disposal facility for the county. At that time, they will discuss with you what variances may be allowed under the regulations. It must be pointed out that the primary variance that can be considered is that of the water level or water table since all other requirements will have to be met for the operation of a facility in accordance with regulations.

If I can provide you with additional assistance or information, I shall appreciate hearing from you.

Very truly yours,

Sidney H. Usry, Chief  
Solid Waste & Vector Control Section  
Sanitary Engineering Division

SHU:bm

cc: Mr. Fred J. Wood  
Mr. O. W. Strickland

# The Dare County Health Department

NORTH CAROLINA STATE BOARD OF HEALTH COOPERATING

DR. JOHN B. SLEDGE, JR., Health Director  
MANTEO, NORTH CAROLINA 27954

Telephone 473-3431

June 6, 1973

JUN 8 1973

Mr. Sid Usry, Chief  
Solid Waste & Vector Control Section  
Sanitary Engineering Division  
State Board of Health  
Raleigh, North Carolina 27602

Dear Sid:

On May 30 Fred Wood joined us for a talk with the Dare County Commissioners concerning the disposal of solid waste in Dare County. The commissioners expressed concern that a portion of our FHA grant money is being withheld because Dare County's program has not yet received state approval.

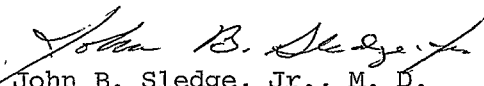
The Commissioners requested that we work out with your department a definite arrangement for collection and disposal which can be approved. This is, of course, difficult in Dare because of the lack of proper disposal sites. But we felt that some variance in approved disposal methods might be arranged.

We talked over several possibilities:

1. Continued use of the present landfill at Manteo with piling and covering of solid waste over the used site.
2. Extending the present landfill further across the marsh with the aid of diking.
3. Establishing a new landfill in a low area near Buxton. This area could be filled with sand dredged in a harbor improvement project and subsequently trenched for conventional landfill disposal.

We will be glad to work with Fred on any variance or novel methods of disposal which might be approved for this area. I would like to let the Commissioners know something soon, so they will have some idea of the expense. Any help you folks can give us will certainly be appreciated.

Very truly yours,

  
John B. Sledge, Jr., M. D.  
Health Director

JBS:db

CC.

Dare County Commissioners  
Manteo, N. C.

*Mr. Wynne C. Dough*

Categorical Programs Division

February 12, 1973

RECEIVED

Mr. Wynne C. Dough  
Route No. 1  
Manteo, North Carolina 27954

SANITARY ENGINEERING  
DIVISION

Dear Mr. Dough:

Your letter of January 24, 1973, to Mr. Ruckelshaus has been referred to this office for reply. We appreciate your concern for and desire to assist in improving our environment.

We are not aware of any specific companies in your area which are engaged in recycling materials from solid waste but that does not mean they do not exist. Each company which utilizes raw materials is a potential user of material recovered from the solid waste stream.

Perhaps your best source of information would be your local or State chapter of the League of Women Voters. They are a very active group in this area of our environment. Also, you may wish to contact your State Solid Waste Program at the following address:

Mr. Sidney H. Usry, Chief  
Solid Waste and Vector Control Section  
Division of Sanitary Engineering  
North Carolina State Board of Health  
P. O. Box 2091  
Raleigh, North Carolina 27602

Your State program knows better than anyone else which activities are under way in North Carolina.

Enclosed you will find publications which address recycling and which should be informative to you and your fellow students.

If I can be of further assistance, do not hesitate to contact me and if you do instigate some type of recycling project we would be interested in hearing of its outcome.

Sincerely yours,

Asa B. Foster, Jr., P. E.  
Director  
Categorical Programs Division

Enclosures: 5

EGC:ebc

Route #1

Manito, N.C. 27257

January 24, 1973

Mr. William D. Ruckelshaus  
Environmental Protection Agency  
1636 K Street  
Washington, D.C. 20460

Dear Sir:

Please send me names and addresses of companies available to this area that provide markets for the disposal of recycled materials such as paper, cans, bottles, etc.

I am a senior in high school and am interested in forming a group of students to help clean up our environment and make a little money doing it.

Sincerely,

Gynne C. Dough

Dare  
DK

January 16, 1973

Mr. Leonard A. Kilian, Jr.  
N. C. Forest Service  
Department of Natural & Economic Resources  
Administration Building  
Raleigh, North Carolina

Dear Mr. Kilian:

This is in regard to our telephone conversation on January 15 concerning mosquito control in The Dare Bombing Range impoundment.

The "Gambusia" mosquito fish are usually put into ponds at the rate of 100-200 fish per acre. These fish reproduce rapidly in the absence of predatory fish and a favorable habitat so that in an impoundment of a size that you are proposing I would think that from 50-100 fish per acre should be adequate; however, the number will depend a great deal on the amount of open water present. The more open water the fewer fish will be necessary.

"Abate" is an "American Cyanamid Company" product. The rate of application recommended is from 0.05 to 0.1 pounds of actual chemical per acre. This material is usually applied from the air and the granular preparations are recommended where there is vegetative cover. Granular "Abate" is available as a 2 percent and 5 percent granular on celatol.

I would suggest that you contact the "Virginia Electric Company" at Roanoke Rapids or the U. S. Corps of Engineers at Kerr Lake who use Abate and have contracts with an aeroplane crop duster who is familiar with the application of this product.

If I can be of further assistance, please let me know.

Sincerely,

D. F. Ashton, Entomologist  
Solid Waste & Vector Control Section  
Sanitary Engineering Division

DFA:clf

Fees

**COUNTY OF DARE**  
**MANTEO, NORTH CAROLINA**

OFFICE, BOARD OF COMMISSIONERS  
W. S. WHITE, CHAIRMAN  
R. V. OWENS, MANTEO  
W. P. DILLON, BUXTON  
RONDAL K. TILLET, WANCHESE  
P. A. TILLET, KITTY HAWK

*SRK*

MELVIN R. DANIELS,  
REGISTER OF DEEDS AND  
EX-OFFICIO CLERK TO THE BOARD

KELLOGG & WHELESS  
GENERAL COUNSEL

October 20, 1972

**RECEIVED**

OCT 27 1972

Mr. Sidney H. Usry, Chief  
Solid Waste and Vector Control Section  
Sanitary Engineering Division  
State Board of Health  
Raleigh, North Carolina

**SANITARY ENGINEERING  
DIVISION**

Dear Mr. Usry:

In reply to your request for plans of operation of the Dare County Solid Waste program, I submit to you this letter of intent. It has been extremely difficult to develop concrete plans due to unavailable disposal sites and problems encountered in the collecting of solid waste in the county. For these reasons a plan of intent has been slow developing.

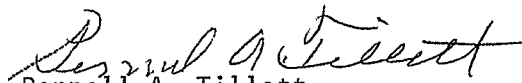
The county plans to continue to operate the present landfill site on Roanoke Island, near Manteo, until a more suitable site can be located. It is estimated that this site will last for another six months. Only domestic waste and fish scraps are accepted at this site. All demolition material, tires, refrigerators, washing machines, stumps, etc. are handled in the land disposal site at Wanchese. The contract collector for Nags Head brings the town's solid waste to the site at Manteo. The town of Manteo uses this site also. Kill Devil Hills uses a town operated site on the beach. The four county owned and operated Paker trucks pick up the remainder of the beach north of Oregon Inlet and the village of Wanchese. Oregon Inlet south to Hatteras Village is serviced by a contract collector, Mr. Junius Jennette who has an agreement with the county to operate a landfill site according to state rules and regulations. The mainland, which includes Stumpy Point, East Lake, Manns Harbor, and Mashoes, has no collection at present, and disposes of solid waste at open dumps which are serviced by the county periodically. Plans are to containerize the mainland providing collection service and disposing of the solid waste at the Manteo site.

Serious consideration is being given to containerizing the beach area from Oregon Inlet to Duck. It is hopeful that the contract collector, Mr. Jennette, will provide adequate services south of Oregon Inlet.

We believe that the county operated landfill site at Manteo is being operated according to the state's rules and regulations at this time, and plans are to continue to operate in an approved manner.

We have been in constant contact with your agency thru Mr. Dewey Boseman, District Engineer, and will continue to bring our solid waste program up to standards with his assistance. It is our desire in Dare County to have a solid waste program to be proud of and to meet all requirements. We have already seen that in Dare County this will be difficult. The topography, social conditions, tourist influx, etc. pose many problems yet to be worked out. We ask that you be patient with us and continue to provide the technical assistance so necessary to overcome the obstacles.

Yours very truly,

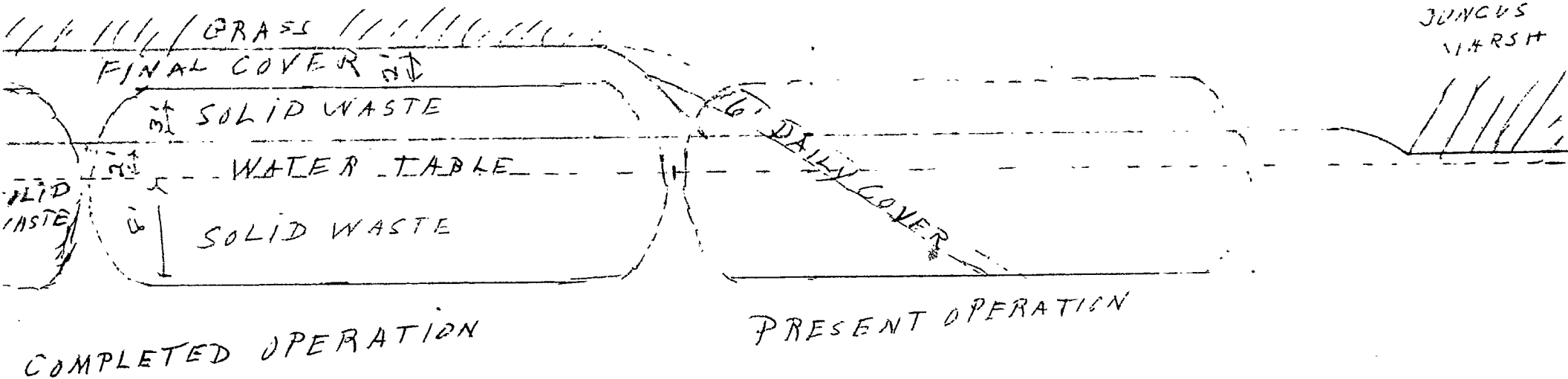


Pennell A. Tillett  
Acting Chairman  
Dare County Board of Commissioners

PAT:am

c.c. Dr. John Sledge, Director  
Dare County Health Department  
Manteo, North Carolina

COUNTY  
LANDFILL SITE  
AT MANTENO,



ENTRANCE

ROAD

← GATE

2-3 yd. Containers

SOLID WASTE



ROAD

SOLID WASTE

P.M. 12:50 P

FUTURE OPERATIONS  
(1-7 6-8 MONTHS)

JUVENILE MARSH

OPERATION OF LANDFILL SITE WILL TERMINATE HERE

WOODS - 4' 5' ELEV

SWAMP 2' ELEV

JUNCOE MARSH  
2' 3' ELEV

CHANNEL

FORT RALEIGH  
NATIONAL HISTORIC SITE

KILL DEVIL HILLS





DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
REGION IV  
50 7TH STREET, N.E.  
ATLANTA, GEORGIA 30323

October 17, 1972

OFFICE OF THE  
REGIONAL DIRECTOR

Colonel Albert C. Costanzo  
Department of the Army  
Wilmington District, Corps of Engineers  
P.O. Box 1890  
Wilmington, North Carolina 28401

Dear Colonel Costanzo:

Your letter of intent with regard to the proposed new research facility at Duck, North Carolina dated September 13, 1972, has been reviewed with emphasis on the health aspects of the project.

In view of the nature of this area, care should be taken in obtaining water supply. From our knowledge of the beach area, a shallow stratum of fresh water is available in limited quantities, but experiences at Nags Head years ago indicated eventual pollution of the ground water table from septic tanks saturating just under the surface area. Mr. Westbrook, of my staff, discussed this with Major Callahan by phone on October 17. We understand that these problems are under consideration by your staff.

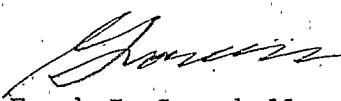
Mr. Sid Usry of the North Carolina State Board of Health, Raleigh, has indicated that his department will be glad to work with you on problems of solid wastes collection from the facilities.

We do not see any problems of a health nature from the construction of the pier, laboratory and other facilities.

From your list of addressees it is apparent that your intentions have been well publicized and that a public meeting is not warranted at this time.

We look forward to seeing the draft Environmental Impact Statement when it is available.

Sincerely,

  
Frank J. Groschelle  
Regional Director

RECEIVED

OCT 20 1972

SANITARY ENGINEERING  
DIVISION

April 10, 1972

Mr. P. A. Tillett, Chairman  
Dare County Commissioners  
County Court House  
Manteo, North Carolina 27954

*JR*  
Dear Mr. Tillett:

At the request of the County Commissioners, I have investigated the drainage needs at Stumpy Point and have submitted plans and specifications to the Corps of Engineers requesting a permit to do the needed work. All indications are that the permit will be granted this month. I would like to suggest that the Dare County Commissioners request the N. C. State Highway Commission to provide and install a culvert through Highway 264 to provide a western outlet for the major drainage canal located behind the village. An outlet at this location is needed to help prevent future siltation in the western end of this canal. The culvert would provide the back and forth movement of water needed to control siltation and stagnation problems.

Respectfully,

Dewey Boseman, District Engineer  
Bath, North Carolina

DB:jp

RECEIVED

SEP 29 1971

# COUNTY OF DARE

MANTEO, NORTH CAROLINA

OFFICE, BOARD OF COMMISSIONERS  
W. S. WHITE, CHAIRMAN  
R. V. OWENS, MANTEO  
W. P. DILLON, BUXTON  
RONDAL K. TILLET, WANCHESE  
P. A. TILLET, KITTY HAWK

September 28, 1971

SANITARY ENGINEERING

DIVISION  
MELVIN DANIEL,  
REGISTER OF DEEDS AND  
EX-OFFICIO CLERK TO THE BOARD

KELLOGG & WHELESS  
GENERAL COUNSEL

Mr. Sidney H. Usry, Chief  
Sanitary Division  
N. C. State Board of Health  
Raleigh, North Carolina

Dear Sid:

I want to thank you and your staff for your promptness in preparing the revised Solid Waste Disposal for Dare County. I apologize for being so late in getting my resolution from the Commissioners endorsing this plan. The reason being, I was out of office during the September meeting and I was only able yesterday, September 27, to get a quorum of our Board together. They are happy and pleased with the plan and it was passed unanimously.

I have sent Phil House, the FHA Representative from our district, the original resolution and a copy of the plan for his review, after which it is to be forwarded to the Raleigh office. I sure hope this completes the work necessary for our grant.

Thanking you again for your patience and understanding in our problems in Dare County.

Very truly yours,

*W. S. White*

W. S. White  
Chairman

Enc. Resolution

*Mr. And Clerk*

R E S O L U T I O N

WHEREAS, on March 2, 1971 the Dare County Board of Commissioners sitting in regular session adopted a plan for Solid Waste Disposal recommended and approved by the N. C. State Board of Health and the Dare County Board of Health; and,

WHEREAS, subsequent to the adoption of the aforementioned plan,, further facts were acquired by the Board of Commissioners which made it impracticable to carry out the said plan; and,

WHEREAS, a revised proposal for Solid Waste Disposal was recommended by the N. C. State Board of Health and the Dare County Board of Health; and,


WHEREAS, the Dare County Board of Commissioners now find that it is in the best interest of Dare County to adopt the revised proposal for Solid Waste Disposal;

NOW THEREFORE BE IT RESOLVED on motion of Commissioner Ron Tillett, seconded by Commissioner Pennel Tillett and unanimously adopted by the Dare County Board of Commissioners sitting in regular session on this 27th day of September, 1971 that the "Revised Proposal Management Program for Solid Waste Disposal in Dare County," a copy of which is attached hereto and made a part hereof, be and the same is hereby adopted and approved by the Dare County Board of Commissioners.

BE IT FURTHER RESOLVED that all resolutions or actions heretofore adopted in conflict with the "Revised Proposal" set out above, are hereby repealed and nullified.

This the 27th day of September, 1971.

  
\_\_\_\_\_  
W. S. White, Chairman  
Dare County Board of Commissioners

  
\_\_\_\_\_  
Melvin R. Daniels, Clerk  
Dare County Board of Commissioners

NORTH CAROLINA  
STATE BOARD OF HEALTH  
RALEIGH

August 3, 1971

Mr. W. Stanford White, Chairman  
Dare County Commissioners  
Manns Harbor, North Carolina

Dear Mr. White:

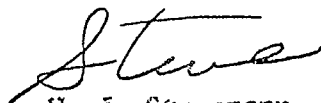
It has been brought to our attention that two sites under consideration for a sanitary landfill to serve the citizens of Dare County are located approximately 4,000 feet from a fresh water lake that serves as a source of water supply for the Towns of Mags Head and Kill Devil Hills. The location of a landfill in close proximity to this lake is of much concern to us for the following reasons:

- (1) Recharge of this lake is provided by both rainfall and ground water movement. At times of high pumpage and a low water level in this lake, it is expected that the cone of influence for ground water recharge could extend out into the landfill area. Therefore, should the ground water in the landfill area become contaminated, it could easily be transported to the fresh water lake.
- (2) At the present time this fresh water lake is the only available source of raw water for the water supplies serving Kill Devil Hills and Mags Head. Should this lake become contaminated at any time, there is no satisfactory alternate water supply to fall back on.

Because of the potential hazard to a public water supply serving two municipalities, we recommend that locations of sanitary landfill sites in the vicinity of the fresh water lake not be considered at the present time.

If you have any questions concerning this matter, please do not hesitate to contact us. Your interest and cooperation is appreciated.

Very truly yours,



W. J. Stevenson, Chief  
Engineering Section  
Sanitary Engineering Division

cc: Mr. Clarence G. Brickle  
Mr. C. A. York  
Mr. Sid Usry  
Mr. Dewey Bosoman  
Mr. M. P. Dell

LETTER TO  
SID USRY

Done  
9/12

STANFORD WHITE, CH, CO. COMM  
MAYOR OF NAGS HEAD

6/23/71

Mr. Usry:

It would like  
for Steve or Mike  
to make the decision  
regarding the feasibility  
of these two sites as  
possibilities for sanitary  
landfills based on  
the close proximity to  
the watershed and  
on future water needs,  
well locations, etc.

Each site is available  
to the County and could  
be utilized as far as  
cover material, etc. is  
concerned.

L. Jewey

100 100 100

100 100 100

HIGH SAND DUNES - 20'

TILLET ESTATE

NO. 1  
SITE  
UNDER  
CONSIDERA-  
TION FOR  
SANITARY  
LANDFILL

NO. 2  
SITE  
UNDER  
CONSIDERA-  
TION FOR  
SANITARY  
LANDFILL

PROPERTY OF  
TOWN OF NAGS HEAD

226 AC.

90 AC.

W. PLENNING  
S. M. HASTINGS  
NAGS HEAD  
N.C.

500 50 1000

100 100 100

100 100 100

July 13, 1971

Mr. W. S. White, Chairman  
Dare County Board of Commissioners  
Courthouse  
Manteo, North Carolina 27954

Dear Mr. White:

I regret that we were unable to discuss, more in detail, solid waste plans on my recent visit to Dare County. I congratulate Dare County and you personally for the action taken in solid waste disposal that resulted in the \$40,000 check from FMA. I understand that Dare County is the third county in the nation to receive these funds.

According to the FMA officials present at the meeting on Tuesday, July 6, 1971, additional funds will depend on new and improved plans for operations coming from our office. I would like to suggest that you and some of the Commissioners meet with members of our staff either in Raleigh or in Dare County and that together we prepare these necessary plans for future operations.

I am looking forward to hearing from you and working with Dare County in continuing this leadership in the handling of the solid waste problems.

Respectfully,

Dewey Doseman, District Engineer  
Bath, North Carolina, 27808

DB:bm

cc: Dr. John Sledge, Jr.

Dare  
LPR

June 24, 1971

Mr. Paul V. Parks, Chief  
Communication Programs  
Farmers' Home Administration  
310 New Bern Avenue  
Room 514  
Raleigh, North Carolina 27611

Dear Mr. Parks:

In agreement with the members of my staff and the Dare County Board of Commissioners, it is requested that the Dare County Solid Waste Disposal Program be changed in the following manner: On Page 5, Item 1, the County of Dare provide one landfill to be located in the general vicinity of Roanoke Island together with such other site locations as may be recommended in the future.

The project will be developed under the supervision of the State Board of Health from the time of inception to completion. That will include site approval, operator training, recommendations for equipment, and periodic inspections as deemed necessary. The project will be operated in accordance with the North Carolina State Board of Health "Rules and Regulations Providing Standards for Solid Waste Disposal."

Very truly yours,

Sidney H. Usry, Chief  
Solid Waste & Vector Control Section  
Sanitary Engineering Division

SHU:bm

cc: Mr. W. S. White, Chairman  
Dare County Board of Commissioners

Dare  
JHR

March 29, 1971

Mr. Stanford White, Chairman  
Dare County Board of Commissioners  
Dare County Courthouse  
Manteo, North Carolina 27954

Dear Mr. White:

As requested by the Board of Commissioners, I have inspected the two sites presently being considered as possible sites for disposal of solid waste by the modified landfill method.

The site at Colington, in the vicinity of Mrs. Rose Liverman's home, is entirely too low to consider for a modified landfill operation. It has an average elevation of only 8-10 inches above normal tides and would be flooded at frequent intervals.

The site at Stumpy Point on Lake Road is a small borrow pit that has been excavated below the water table. At the present time, it is drained into the bay and tide water rises and falls within the pit. This site is in very close proximity to an estuarine area, subject to frequent flooding and has no available cover material. A modified landfill as defined by the State Board of Health could not be operated on this site.

The proposed management program prepared by the Sanitary Engineering Division and presented to the Board of Commissioners last August suggested a landfill site in Manteo Harbor as a more central location to serve Stumpy Point, East Lake, and Manteo Harbor. A collection system would serve each community.

Although Stumpy Point is located a greater distance from the suggested landfill site than any other community, it would still receive the same collection service.

Respectfully,

Devey Boseman, District Engineer  
Bath, North Carolina

DB:bm

cc: Mr. Joe Stokes

January 26, 1971

Mr. Stanford White, Chairman  
✓ Dare County Board of Commissioners  
County Courthouse  
Manteo, North Carolina 27954

*JLR*  
Dear Mr. White:

At the request of the County Board of Commissioners, I have surveyed the proposed sanitary landfill site located behind the water tower in Manteo. This land is too low to satisfactorily operate a modified landfill and I would suggest another area. Perhaps the State Highway Commission borrow pit at Wanchese could be made available. Although not an ideal site, it could be operated in a sanitary manner and serve as one of the four (4) modified landfills recommended for Dare County in the solid waste plan presented to your board back in August.

Respectfully,

Dewey Boseman, District Engineer  
Bath, North Carolina 27808

DWB:bm

cc: Mr. Joe Stokes

JACOB KOOMEN, M.D.,M.P.H.  
STATE HEALTH DIRECTOR  
AND SECRETARY-TREASURER



W. BURNS JONES, JR., M.D.,M.P.H.  
ASSISTANT STATE HEALTH DIRECTOR

James S. Raper, M.D.  
President  
Asheville

Lenox D. Baker, M.D.  
Vice-President  
Durham

Charles T. Barker, D.D.S.  
New Bern

Ben W. Dawsey, D.V.M.  
Gastonia

NORTH CAROLINA  
STATE BOARD OF HEALTH

P. O. BOX 2091  
RALEIGH, NORTH CAROLINA 27602

November 12, 1970

Joseph S. Hiatt, Jr., M.D.  
Southern Pines

J. M. Lackey  
Hiddenite

Paul F. Maness, M.D.  
Burlington

Ernest A. Randleman, Jr., B.S.Ph.  
Mount Airy

Jesse H. Meredith, M.D.  
Winston-Salem

Mr. Sidney H. Usry, Chief  
Solid Waste & Vector Control Section  
Sanitary Engineering Division  
N. C. State Board of Health  
Raleigh, North Carolina 27602

Dear Mr. Usry:

Recently I met with Mr. Leonard Midgett in Manteo to inspect a site that he had in mind for a private refuse disposal site for the refuse that he collects from Nags Head. The area that Mr. Midgett has in mind is approximately five acres but more could be incorporated if future needs demanded. His purpose in developing this site and operating a sanitary landfill is to eliminate a \$200 a month fee for use of the county dump at Wanchese; to fill in a low area on his property; and to cut short his route to a disposal site.

This site is not an ideal site for a sanitary landfill operation. It lacks adequate drainage and cover material and has a high water table. However, the site does have the possibility of becoming a fair site if properly developed and maintained; certainly a far better site than the county's which is currently being used.

I discussed the possibility of developing this site with Mr. Midgett, pointing out the limitations due to the water table, poor drainage and limited cover material. I explained the most practical methods of development and use for this site and believe that if adhered to would adequately serve for the disposal of the small volumes of refuse that he is currently handling.

This site cannot be developed to handle a large volume of refuse and meet the State's requirements regarding satisfactory disposal and I do not recommend it for disposal of refuse from the county.

Respectfully,

*Dewey Roseman*

Dewey Roseman, District Engineer  
Bath, North Carolina 27808

cc: Dr. W. W. Johnston  
Mr. Leonard Midgett

Dare  
JHR

November 4, 1970

Mr. Leonard W. Midgett  
Manteo  
North Carolina 27954

Dear Mr. Midgett:

In reply to your request, I asked that Mr. D. W. Boseman contact you on his last visit to Dare County to discuss the disposal of solid waste. He informed me that he was unable to locate you during his recent visit but will be in contact with you in a few days to explain the State program.

This agency has the responsibility for solid waste disposal but is not connected with the Department of Water and Air Resources. Information that you might need for air pollution can be secured by writing Mr. W. E. Knight, Director, Air Pollution Control Division, N. C. Department of Water and Air Resources, Raleigh, North Carolina.

Very truly yours,

Sidney H. Usry, Chief  
Solid Waste & Vector Control Section  
Sanitary Engineering Division

SHU:bm

cc: Mr. D. W. Boseman

Manteo, North Carolina  
Oct. 9, 1970

O. W. Strickland  
Program Coordinator  
State Board of Health  
Raleigh, N. C.  
Dear Sir:

RECEIVED

OCT 12 1970

SANITARY ENGINEERING  
DIVISION

I have been instructed to  
consult you concerning the  
necessary requirements of a  
land fill for the disposal of  
trash and garbage. I have  
entered in a contract for such,  
with the town of Nag's Head, N. C.,  
from July 1, 1970 - June 30, 1971.

Are you connected in any  
way with the Air and Water Pollution  
of the Program for North Carolina?

I will appreciate any  
information that you may  
give me regarding this matter.  
Thank you, Sir.

Yours truly,  
Leonard W. Midgett

*Dare*  
*HR*

STATE OF NORTH CAROLINA  
DEPARTMENT OF WATER AND AIR RESOURCES

ROBERT W. SCOTT  
GOVERNOR

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J. NELSON GIBSON, JR.  
WAYNE MABRY  
HUGH L. MERRITT  
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GEORGE E. PICKETT, DIRECTOR  
TELEPHONE 829-3003  
E. C. HUBBARD, ASST. DIRECTOR  
TELEPHONE 829-3006  
RALEIGH, N. C. 27611  
P. O. Box 27048

In Replying Refer To:  
wq70TFA

August 25, 1970

TO: Mr. Randolph Hendricks  
Planning Coordinator  
State Planning Division  
Department of Administration  
Raleigh, North Carolina

FROM: Mr. D. L. Coburn, Chief *D.C.*  
Water Quality Division  
Department of Water and Air Resources

SUBJECT: Clearinghouse Notification No. 71-0075

RECEIVED

SANITARY ENGINEERING  
DIVISION

Subject notification has to do with proposed solid wastes facilities for the entire Dare County area.

The North Carolina State Board of Health has primary jurisdiction in connection with approval of solid wastes facilities and this Department has no comment on these facilities at this time.

cc: Mr. T. F. Armstrong  
Mr. Sidney Usry ✓  
Mr. Joe Hudson  
Mr. C. R. Smart, Jr.

Dare  
I+R

August 20, 1970

Mr. Randolph Hendricks  
Planning Coordinator  
State Planning Division  
Department of Administration  
Raleigh, North Carolina 27602

Re: Clearinghouse Notification  
No. 71-0075

Dear Mr. Hendricks:

The North Carolina State Board of Health has provided the Dare County Board of Commissioners with a Solid Waste Disposal Plan for the county.

The application for financial assistance has been made by this county in an effort to obtain financial assistance with the implementation of this plan.

Any consideration in this matter will be appreciated.

Very truly yours,

Sidney H. Usry, Chief  
Solid Waste & Vector Control Section  
Sanitary Engineering Division

SHU:bm

cc: Mr. Gene Barrett  
Planning Officer

DEPARTMENT OF ADMINISTRATION  
State Planning Division  
Clearinghouse and Information Center  
Raleigh, North Carolina 27602

RECEIVED

AUG 17 1970

NOTIFICATION REFERRAL

SANITARY ENGINEERING  
DIVISION

ACTION REQUESTED

To: Name B. Gene Barrett, Planning Officer

Agency State Board of Health

Re: Clearinghouse Notification No. 71-0075

The attached Notification to Clearinghouse of Intent to Apply for Assistance is referred to you for review and comment in accordance with Project Notification and Review System procedures established under Bureau of the Budget Circular No. A-95.

RESPONSE REQUESTED BY August 31, 1970

In each response, please refer to the Clearinghouse Notification No. shown above. If your agency does not wish to submit written comments, you may respond by telephone.

It is recommended that you contact the applicant directly if your agency needs additional information on the proposed application, or if there are any questions which may be resolved in this way.

Please reply to: Randolph Hendricks, Planning Coordinator

State Planning Division

Telephone 829-4131 ~

DO NOT WRITE IN THIS AREA - FOR GOVERNMENT USE ONLY.

**APPLICATION****FEDERAL ASSISTANCE FOR  
PUBLIC WORKS AND FACILITY  
TYPE PROJECTS**

(Please read the Instructions  
before completing this appli-  
cation. Submit application  
in original and one copy.  
Attach additional sheets if  
necessary.)

1A. NO.		R E F E R R A L	
AGENCY	DATE RECEIVED	DATE REFERRED	TO
AGENCIES ASSUMING JURISDICTION			
AGENCY	DATE	PROJECT COMPONENT	PROJECT NO.

1A.	APPLICANT (Exact legal name or proposed name if not incorporated)			
	Dare County Board of Commissioners			
	CITY OR TOWN	(County)	(State)	(Zip code)
	Manteo	Dare	N. C.	27954

1B. TYPE OF ORGANIZATION (Check appropriate box)				
<input type="checkbox"/> STATE GOV. AGENCY	<input checked="" type="checkbox"/> LOCAL GOV. UNIT	<input type="checkbox"/> NON-PROFIT ORGANIZATION	<input type="checkbox"/> OTHER (Specify)	

**2. LOCALITIES TO BE SERVED**

CITIES, TOWNS, OR AREAS (List separately)	COUNTY	P O P U L A T I O N		
		1960	CURRENT (Est.) 70	TO BE SERVED BY PROJECT
Entire County	Dare	5935	7454	

**3. DESCRIPTION AND PURPOSE OF PROPOSED PROJECT**

A. DESCRIPTION
Project will consist of proper treatment and disposal of garbage in Dare County. Method of disposal is use of land fills. Grant is needed to acquire landfill maintenance equipment.

B. PUBLIC INTEREST AND NECESSITY
The proper treatment of garbage is of utmost importance to Dare County. The county economy is based on the tourist industry, and these tourist are largely responsible for the garbage problem in the area.

C. PLANNING AGENCY (County, Multi-county, Regional, etc.)
<input checked="" type="checkbox"/> REVIEWED BY PLANNING AGENCY (Attach comments) <input type="checkbox"/> NOT REVIEWED BY PLANNING AGENCY (If not, explain)

SOURCE OF FUNDS	WASTE		WATER	OTHER (Describe in G. below)	TOTAL
	TREATMENT (1)	COLLECTION (2)			
A. FEDERAL GRANT REQUESTED	\$	\$	\$	\$ 20,000	\$ 20,000
B. FEDERAL LOAN REQUESTED					
C. OTHER FEDERAL CONTRIBUTION					
D. STATE CONTRIBUTION					
E. APPLICANT CONTRIBUTION					
F. ESTIMATED TOTAL PROJECT COST	\$	\$	\$	\$	\$

G.

5. OTHER FEDERAL ASSISTANCE - PREVIOUS OR PENDING			
NAME OF AGENCY	TYPE OF ASSISTANCE	INDEBTEDNESS OUTSTANDING, IF ANY	AMOUNT REQUESTED
None			

The applicant represents that the data in this application are true and correct to the best of his knowledge and belief and that the filing of this application has been duly authorized by the governing body of the applicant.

EXACT LEGAL (Corporate) NAME OF APPLICANT (If unincorporated, enter proposed name)

Dare County

ATTEST (Signature of attesting officer)

BY (Signature of authorized officer)

TITLE

TITLE

Clerk to the Dare County Board of Comm.

Chairman, Dare County Board of Commissioners

NOTE: Additional Information May Be Requested To Support This Application..

(DO NOT WRITE IN THIS SPACE - FOR GOVERNMENT USE ONLY)

September 21, 1979

Mr. Dwane Hinson  
District Conservationist  
P. O. Box 1047  
Manteo, North Carolina 27954

Dear Mr. Hinson:

This agency has completed its review of the proposed landfill site on Mashoes Road in Dare County. This site is not approved for the following reasons: *JGL*

1. Unsuitable soils
2. Water table near surface
3. Frequent inundation of area by wind tides which increase potential for leachate pollution.

Concurring with the decision not to approve this site is the attached report from the Department of Natural Resources and Community Development.

If you have questions or if this agency may be of assistance in evaluating potential sites in the future, please advise.

Yours truly,

*JGL*  
J. Gordon Layton, Environmental Engineer  
Solid & Hazardous Waste Management Branch  
Sanitary Engineering Section

JGL:sms

Attachment

cc: Mr. Billy Morris  
Mr. William C. Jeter

GROUND WATER SECTION  
DIVISION OF RESOURCE PLANNING AND EVALUATION  
DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES



RECORD OF WASTE OR WASTEWATER PERMIT APPLICATION REVIEW

REVIEW BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
FIELD INVESTIGATION BY: William C. Jeter DATE: 3 August 1979  
TOWN: Mann's Harbor COUNTY: Dare  
LOCATION (SKETCH ON BACK) along the east side of SR1113 approximately 0.8 miles  
north of the junction with US 64-264  
OWNER (S) OF FACILITY OF INSTALLATION: Dare County (proposed)  
TYPE WASTE OR WASTEWATER SYSTEM: (LAND FILL, LAGOON, ETC) Landfill  
TYPE OF WASTE: domestic solid waste  
CHEMICAL ANALYSES AND OTHER DATA AVAILABLE: soil survey  
NAME OF NEAREST STREAM: Croatan Sound DISTANCE: forms boundary of site  
DISTANCE TO NEAREST WELL: none in area within 1,000 feet  
AVG. DISCHARGE RATE N/A LIFE EXPECTANCY OF FACILITY undetermined  
DESCRIPTION OF FACILITY (SKETCH ON BACK): \_\_\_\_\_  
PROPOSED METHOD FOR PREVENTING GROUNDWATER CONTAMINATION: none proposed  
as this is an evaluation of the site for use as a landfill  
STRUCTURE, LITHOLOGY AND PERMEABILITY OF SURFICIAL MATERIALS: see attached  
soils survey  
HYDRAULIC RELATIONSHIP BETWEEN WATER TABLE AND ARTESIAN AQUIFERS: the water  
table over most of the site is at the land surface (+2 to 3 feet MSL) which is essentially  
at the same level as the head on the "principal aquifer"  
DEPTH TO BEDROCK: N/A DEPTH TO WATER TABLE: at the land surface  
MONITORING FACILITIES NEEDED: (ATTACH SKETCH) N/A  
RECOMMENDED SAMPLING SCHEDULE: N/A  
REMARKS AND RECOMMENDATIONS: Due to the height of the water table, the marsh soils  
underlain by sand, the proximity to Croatan Sound, and the potential for flooding by wind  
tides, it is strongly recommended that the proposed site not be used for the disposal of  
any type of wastes - particularly solid waste in a landfill.

*Layton*

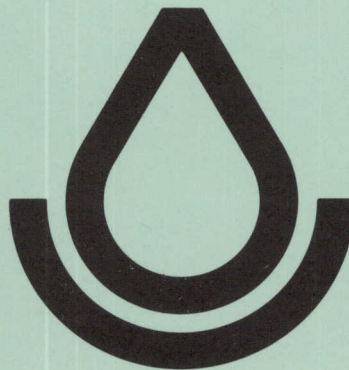
# INVENTORY AND EVALUATION

## SOIL AND WATER RESOURCES

SOIL MAP

LANDFILL SITE

DARE CO. PUBLIC WORKS DEPT.

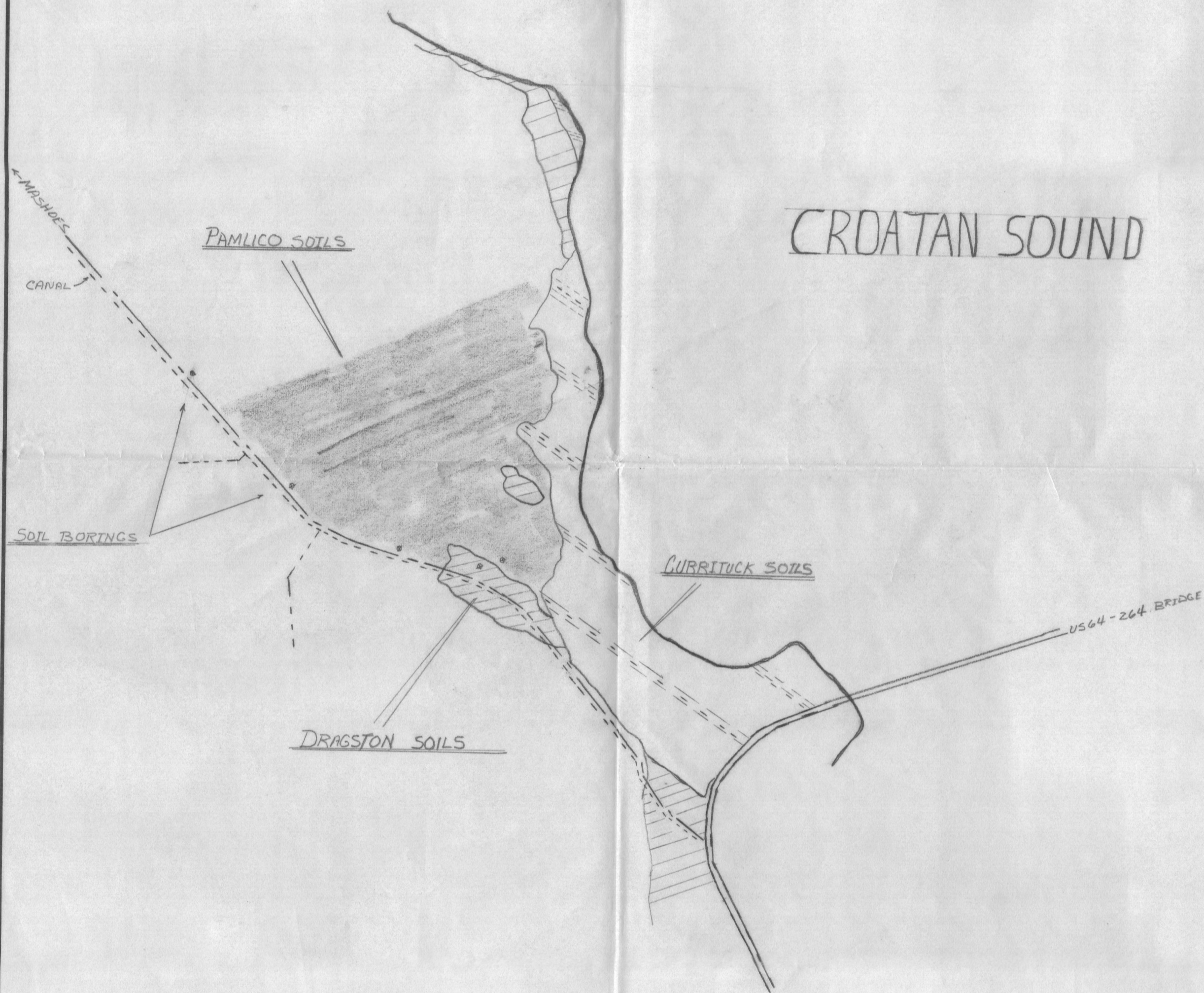


SOIL CONSERVATION SERVICE  
U.S. DEPARTMENT OF AGRICULTURE

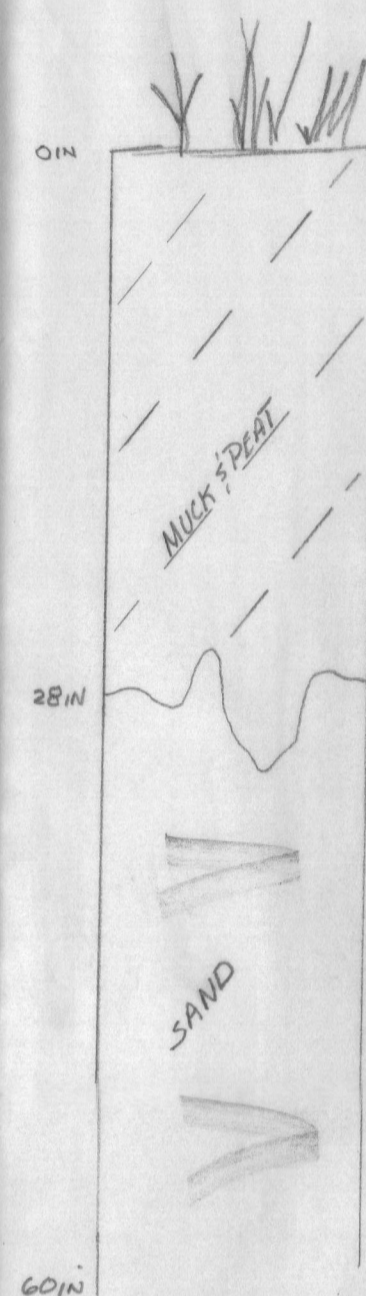
# SOILS MAP

SITE- MASHOES ROAD

1" = 2000' N

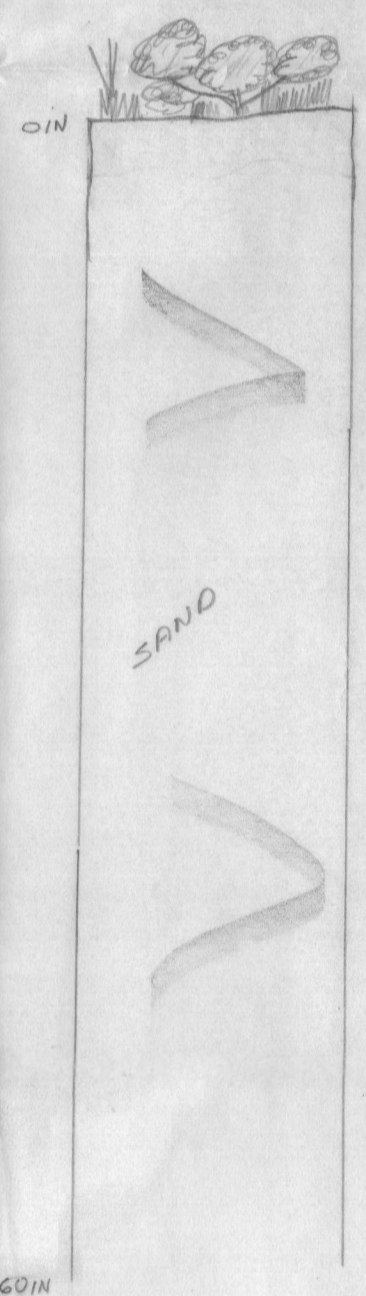


## CURRITUCK SOILS



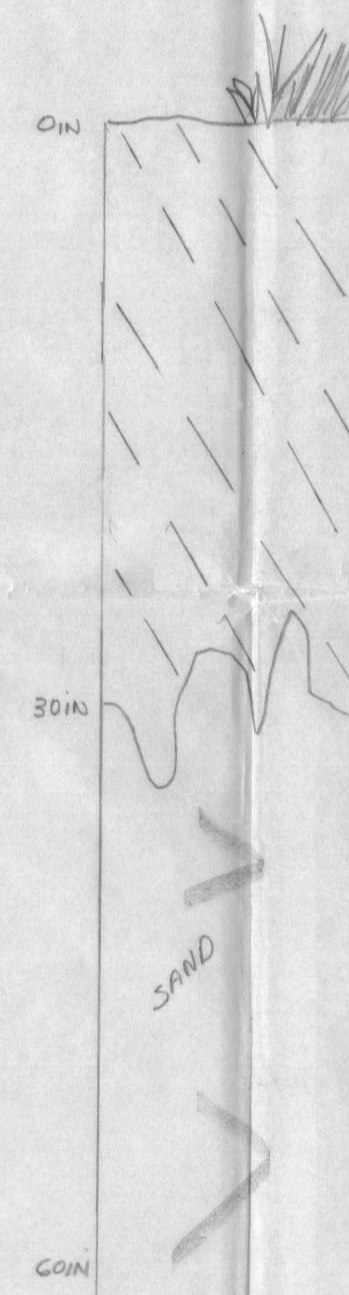
THIS LAYER WAS FOUND TO VARY FROM 10 TO 28 INCHES. THIS LAYER IS COMPOSED OF DECAYED ROOTS AND DEBRIS. THIS SOIL WOULD BE CONSIDERED A MARSH TYPE SOIL, AND IS FLOODED PERIODICALLY BY WIND TIDES

## DRAGSTON SOILS



THIS SOIL IS SANDY THROUGHOUT, AND IS LOCATED IN THE AREAS OF HIGHER ELEVATIONS, USUALLY WHERE LARGE PINE TREES (60-70 FT) ARE IN CLUSTERS OR HAMMOCKS

## PAMLICO SOILS



THIS LAYER WAS FOUND TO VARY FROM 20 TO 30 INCHES; HOWEVER, THERE WERE HOLES WHICH EXCEEDED 50 INCHES. THIS LAYER IS COMPOSED OF DECAYED ROOTS, TWIGGS, LEAVES, ETC., AND HAS A HIGH SEASONAL WATER TABLE WHICH AT TIMES MAY POOND ON THE SOILS SURFACE

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SOILS MAP	EVERETT COATS	Date	Approved by
Designed	SOIL SCIENTIST		Title
Drawn	J. DWANE KINSON		Title
	SOIL CONSERVATIONIST		
Traced		Sheet	Drawing No.
Checked		No	
		of	

